

Kent wins brick plan go-ahead

A YEAR ago the future production of London stock bricks from the North Kent brick fields hung in the balance, dependent on the outcome of a public inquiry concerning the Kent County Council's plan for the future winning of brick-earths.

The council's plan seemed to establish a unique balance between the interests of agriculture and brickmaking. It contained specific requirements for the proper reinstatement of the land after the extraction of the brick-earths. The actual words of the report were significant: "Brick-earths excavations are shallow and dry and have less of the visual impact associated with other types of mineral extraction. Former workings are only distinguishable in the landscape by a lowering of the land surface and by a characteristic bank around the perimeter of the site up against roads or other adjoining land at pre-existing levels."

The council's plan was acceptable to the three remaining brickmakers in the Rainham-Faversham area (Blue Circle Brick, Crenner & Whiting and Redland), but objections were lodged by the Swale Borough Council and some conservationist and countryside groups. Specific objections were registered by some neighbours of the areas designated for future brick-earths extraction.

The public inquiry took place at the beginning of October last year. After hearing the evidence of S G Walters, a chartered engineer, reported to the county secretary, who in turn reported to the planning sub-committee in December. No modifications which had major significance to the brickmakers were recommended, changes in the plan being confined to minor variations to some large sites and the entire deletion of two small sites.

The net effect of this is that reserves of brick-earths for the next 15 to 20 years are assured, and the traditional London stock brick will continue to be made in North Kent for that time at least.

As David Turner, who led the Redland attack, puts it: "At one time it seemed that not another brick would come out of North Kent. It's been hard work over many years." Turner sees the outcome as evidence that "if the brick industry is prepared to collect its evidence and put it to a responsible authority, a satisfactory outcome can result."

Landfill gas kiln scheme produces major fuel saving

Last year's *BD Brick Supplement* reported Yorkshire Brick's scheme for firing its kilns using landfill gas, piped from an adjacent disused quarry.

Returning this year to see if the promise of this cheap fuel had been fulfilled, we discovered that the last 12 months had not been easy for Yorkshire Brick.

Most of the problems, however, had nothing to do with the methane supply. Having lived through the teething troubles of a new kiln and new technology, Alan Winlow, Yorkshire Brick's managing director, reports that his kilns are now consistently firing 20 per cent by landfill gas and 80 per cent by natural gas—saving about £100,000 per year on his fuel bills. He believes this saving will double when the whole of his gasfield comes on stream.

There are some valuable environmental spin-offs from this development. Since last year the scar on the hillside, caused by the disused quarry, has been diminishing day by day. Evidence of the pipes beneath the surface which draw off the valuable fuel, only a few discreet well-head manholes positioned at the end of the vertical collection pipes.

The first filled area (Winlow's original pilot scheme plot) has produced its second year's crop of hay, while the next area of fill has just produced its first crop. Next year the whole area will be grassed over and the filling operation will move downhill to a quarry about a quarter of a mile away.

Interest in Winlow's activities has come from all over the world — the latest approach from China asking for advice on a scheme which is being proposed in that country.

Winlow has given advice on the use of landfill gas to heat the glasshouses of a horticulturalist at Hooton Pagnell and a rival brickmaker at Normanton.

It is thought there are at least three brickworks in the UK using landfill gas to some extent

to fuel their kilns. The Department of Energy has sponsored studies with Yorkshire Brick and London Brick Landfill. These have shown the immense potential of this latent fuel source, particularly in brick and cement production.

In a survey carried out last year, it was reported that between 300 and 350 landfill sites in the UK are potentially capable of producing large quantities of methane. The fuel potential of this gas is thought to be the equivalent of one million tonnes of coal.

London Brick Landfill estimates that it will be producing

20 million bricks per week using landfill gas by 1990 and by the following year it hopes its giant Stewarby brickworks will be self-sufficient in terms of fuel.

Where the consumers of the gas are situated remotely from its source, the methane can be used to generate electricity via gas engines or turbines. London Brick Landfill is about to embark on such a scheme, which should generate some 0.8MW of electricity using three 275kW spark ignition gas engines.

The Department of Energy is also funding research into ways in which the yield of landfill sites can be improved.



Bullseye at Butterley

For the first time in its 34-year history, it is reported that the Clockhouse of Butterley Building Materials clocked up the sale of one million bricks in a single week.

The record-breaking week was in May and comes two years after the over of Clockhouse by Butterley. At that time it was selling about 400,000 bricks per week.



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BUILDING DESIGN

No 803

The weekly newspaper for the design team

FRIDAY SEPTEMBER 12 1986

£1m writ delays Oxford scheme

A £1 MILLION writ against Oxford architects Kendrick Associates has caused developer London & Metropolitan Estates to pull out of Oxford's troubled Gloucester Green shopping scheme.

Dimsdale Developments, the developer originally chosen for the scheme following a competition, served the writ on Kendrick several months ago, claiming the right to use Kendrick's copyright, but the amount involved had not been revealed.

"We conveyed this information to L&M indicating that they should desist in using Donald Kendrick's plan as they are subject to the legal action we are taking against Kendrick," said Dimsdale managing director Dennis Beadle.

Dimsdale was dropped from the scheme by Oxford council a year ago after financial troubles hit Dimsdale's main contractor, Benfield & Loxley.

It is understood that Kendrick and Dimsdale's project managers, Moulton Benn, took the opportunity to disassociate themselves from Dimsdale. According to Oxford councillor Albert Ramsay, chairman of the estates and planning committee, "the designers refused to enter into a contract of which Dimsdale had any part".

"I just can't say anything at the present time," Kendrick told *BD*.

Oxford council's director of planning, estates and architecture, John Billingham, said: "I am quite convinced that Dimsdale don't hold the copyright." There is going to be a full report to the council on September 22.

"I believe L&M has behaved disgracefully toward the council," said Ramsay.

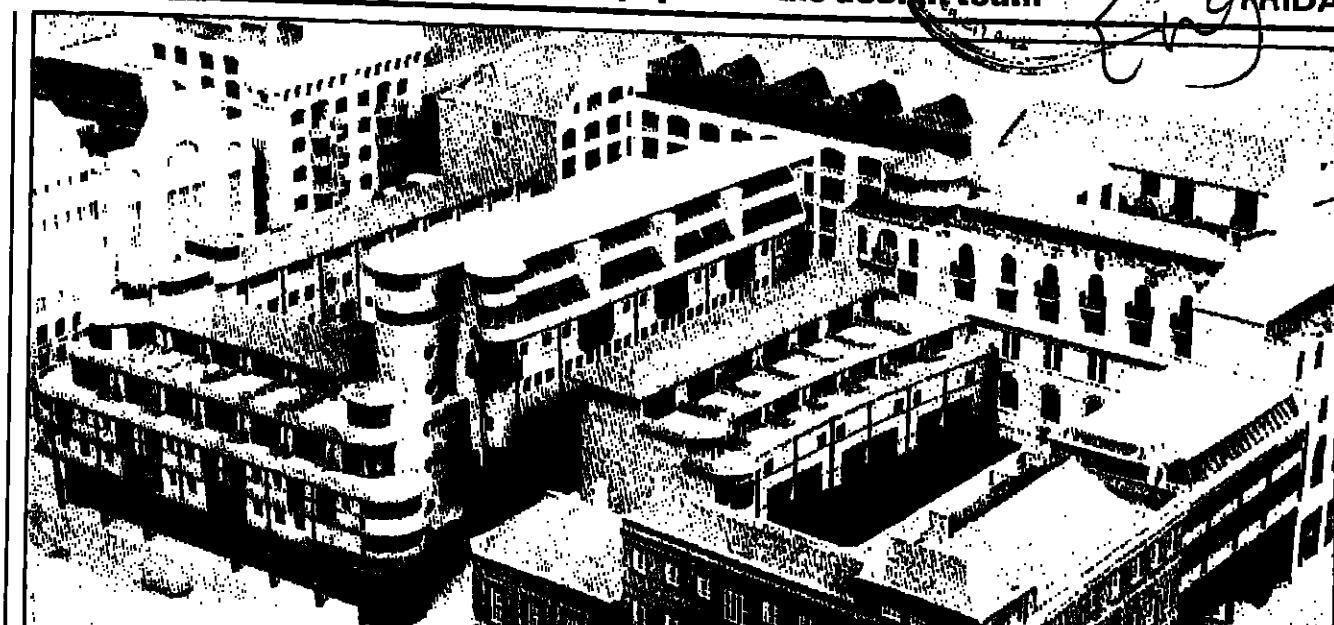
Statement on Harris

THE RIBA has responded formally to the resignation of John Harris as curator of the Drawings Collection.

An official statement says: "The Drawings Collection in its present form is the creation of John Harris and the finest thing of its kind in the world. The Institute, the nation, and the international community of architectural scholars are greatly in his debt."

Harris will retain a consultancy with the Institute.

Wansler backs Rolland — page 8.



Horselydown Square by Tower Bridge, a complex mixed development of 75 apartments and 3,800 sq m of shops and offices, has recently started on site to plans by Wickham & Baumgarten.

The site is on the south-eastern corner of the bridge. The scheme, for Berkeley House Developments, consists of five blocks between four and eight storeys, enclosing two paved public courts. Pedestrian streets cross both ways through the site, one linking with the Thames walk and the other between the Courage Brewery site and a new development eastwards by Conran Roche. The project is to be built in a rich variety of materials from concrete and brick to steel, glass and marble.

It is intended to repair the urban block, bringing life into the area by increasing accessibility.

Ronan Point 'had good strength rating'

MORE FEARS OVER FAULTY TOWERS

PREVIOUSLY unreleased government information dating from 1968 shows that Ronan Point was considered to have one of the strongest types of flank wall joints in a league table of eight systems.

The table ranks Wates, Recma, Bison and Taylor Woodrow-Anglian at the top for strength, with 12M Jespersen, Camus, and Tricoba ranked lower and Skarne as the weakest.

MP calls for action

LONDON MP Nigel Spearing is demanding Government action over the faults recently discovered in Ronan Point.

Spearing, whose Newham South constituency includes the notorious tower block, has asked DoE chief Nicholas Ridley why the bad workmanship faults found during Newham council's current investigation were not uncovered by the original enquiry in 1968.

"There have been allegations that these facts were known then

But there are increasing doubts about the H2 load-bearing flank wall joint in the TWA system, following the discovery of shoddy workmanship on the Ronan Point block, reported by *BD* last week.

The story was taken up by national press and television.

Evidence on the strength of various wall joints was given to

By Alan Thompson

the Ronan Point public inquiry, but codes were used rather than the names of the systems.

These have now been dis-

closed by veteran tower block campaigner, architect Sam Webb.

Assistant director of engineering at Newham council, Andrew Davenhall, told *BD* that findings in the council's current Ronan Point investigation had amazed him.

"I was surprised at how universal the bad workmanship in the block is," he said.

"None of the lifting bolts had been wound down and the joints all seemed to be poorly constructed. Even internal joints are very badly packed."

He said the faults could be much more critical on the lower floors of the block as the deadweight of the building increases.

"Authorities should be aware that a bad workmanship problem does exist and it is up to them to examine their system-built buildings for any faults," he said.

Webb claims to have found similar construction faults in the 20-storey Camus blocks on the Clapton Park estate in Hackney.

Webb told *BD* that floorslabs in the tower blocks were levelled on pieces of wood, which could be slowly deteriorating, instead of being supported by in-situ concrete filling.

Institute calls it a day on Hull urban plan

THE RIBA has scrapped plans for the Hull Community Urban Design Assistance Team (Cudat).

At a meeting of the institute's community and urban affairs committee last week, it was agreed that in the absence of an invitation from the local community, the proposal should be withdrawn.

But RIBA director of public affairs David Atwell said that consultations would continue and it was hoped that the community might invite them in at a later date.

He added that city officers and councillors had been very supportive, but anxieties and misunderstandings in the local community were the problem.

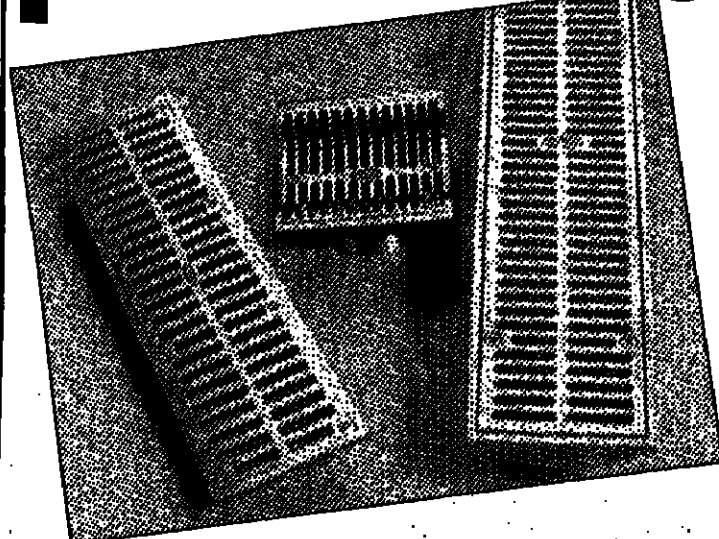
The decision is a victory for the author of the Cudat guidelines, Rod Hackney.

He believed Hull was an ideal venue for a Cudat, but called for it to be withdrawn when no wave of support came from the local community.

He also wanted it to be targeted on the docks area of the city instead of the Drypool district which was selected.

Camden council has agreed to appoint outside consultants to determine the future of its Hillview Estate. The council had been in favour of demolition, but after a report by architects Hunt Thompson commissioned by residents, this option has now been dropped.

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INDEX

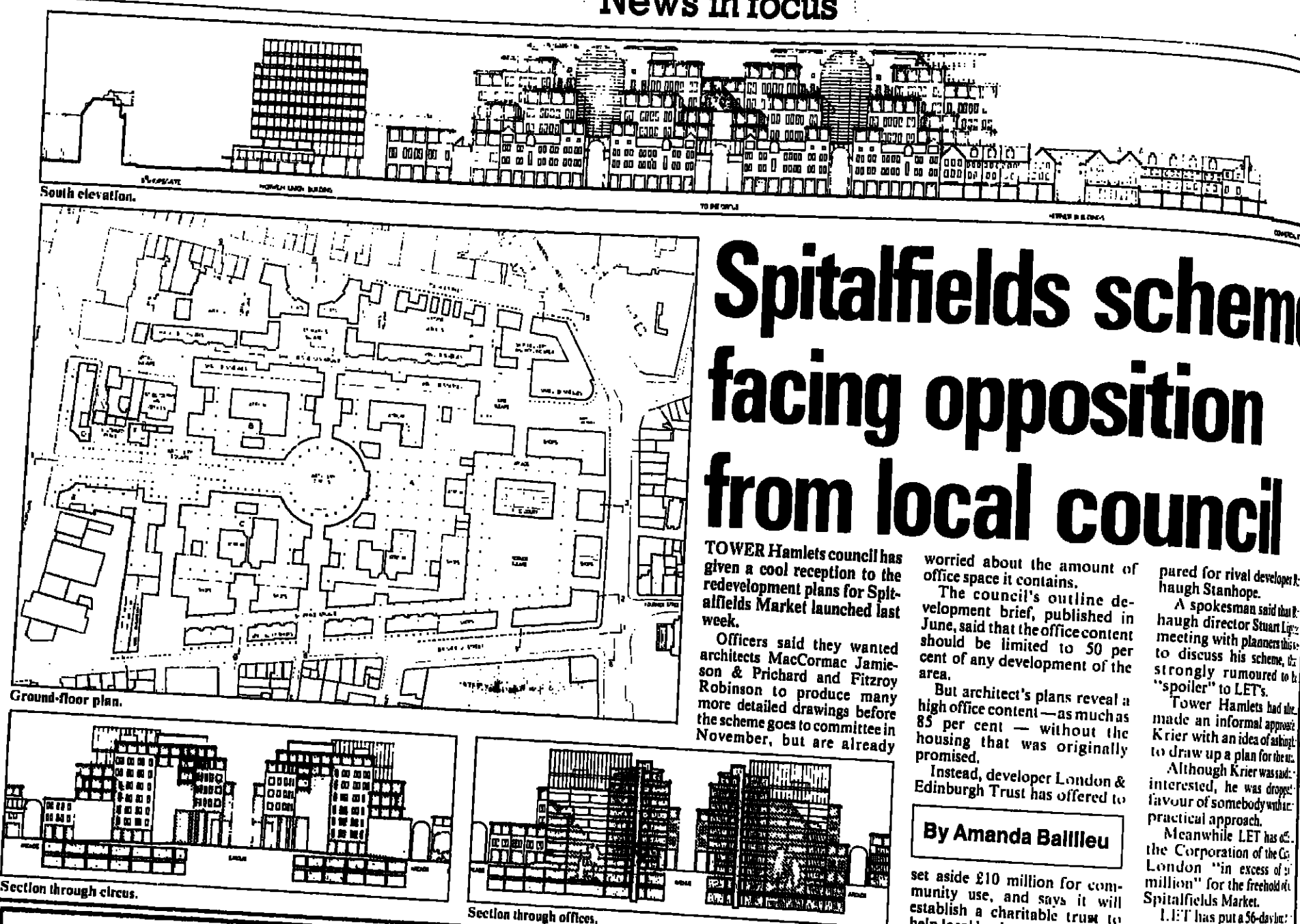
NEWS 2-3 and 49; Infill 9, Continuation 9, Perspective 10, Geography 11, SA Gs 11, Letters 12-13, Opinion 14, Overseas 15, Legal 16-17, Features 18-19, Books 20-21, New Products 22-23, Technical Literature 24-25, Readers' advisory service 26, Database 27, Free classifieds 28, Appointments 29-30

Guggenheim dilemma



pages 30-35

Cal



Spitalfields scheme facing opposition from local council

TOWER Hamlets council has given a cool reception to the redevelopment plans for Spitalfields Market launched last week.

Officers said they wanted architects MacCormac Jamieson & Pritchard and Fitzroy Robinson to produce many more detailed drawings before the scheme goes to committee in November, but are already

worried about the amount of office space it contains. The council's outline development brief, published in June, said that the office content should be limited to 50 per cent of any development of the area.

But architect's plans reveal a high office content—as much as 85 per cent—without the housing that was originally promised.

Instead, developer London & Edinburgh Trust has offered to

By Amanda Baillieu

set aside £10 million for community use, and says it will establish a charitable trust to help local businesses.

But the council is concerned that any real planning gain will be "off-site", which would have a dramatic effect on land values in the area.

A spokesman said that LET's off-site package would "have to be looked at very carefully" as the council has already committed itself to an on-site package, including fair-rent housing, open space and amenities.

Meanwhile the council is still waiting to see the classical masterplan by Leon Krier, with a bevy of highly respected architects in tow, being pre-

pared for rival developer, haugh Stanhope.

A spokesman said that haugh director Stuart Lyle, meeting with planners last week, to discuss his scheme, is strongly rumoured to be "spoiler" to LET's.

Tower Hamlets had made an informal approach to Krier with an idea of using him to draw up a plan for the area.

Although Krier was not interested, he was dropped in favour of somebody with a practical approach.

Meanwhile LET has set the Corporation of the City of London "in excess of £1 million" for the freehold of Spitalfields Market.

LET has put a 56-day offer, which expires October 27, the date of the Bang.



Trying to recreate an urban fabric...

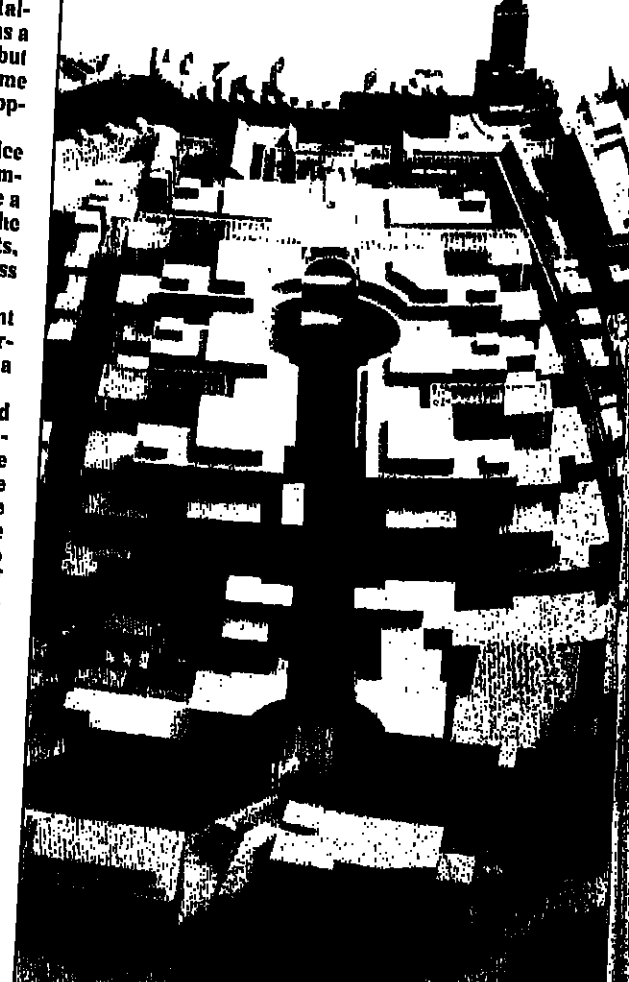
LAUNCHING his vision for a new look Spitalfields, Richard MacCormac said the scheme was "deliberately tight" with a new fabric closely knitted into the old. He acknowledged that Spitalfields could be seen "simply as a great appendix to the City" but was quick to distance the scheme from other nearby office developments like Broadgate.

He said that modern office buildings tend to isolate themselves but Spitalfields would be a chance "to try and mend the area" reinstating certain streets, and making connections across Broadgate.

He described the office content of his scheme as "great mercantile palaces emerging from a city of mixed uses".

While MacCormac has had little experience of major commercial development, he said he accepted it as a component of the City, deliberately putting the office buildings at the heart of the site, with "jumps in dimension" to its perimeter, consisting of houses, shops, and small businesses.

Tower Hamlets, commented "as a principle it has some mileage but we're still concerned about the office content".



Business park plan for Oxford

YEARS of speculation and thwarted plans at one of the country's prime hi-tech business areas could have ended with the news that Covell Matthews have submitted plans to Cherwell District Council for an £80 million science park.

Developer Caledonian & Oxford Securities is backing the scheme for a mixed-use business park on a 30ha site at Fries Farm, two miles north of Oxford.

The site is owned by Exeter College and adjoins the Oxford Ring Road at the junction of the A34 and A43, where major road improvements are planned to provide fast links to the M40 motorway extension.

Covell Matthews are proposing a scheme comprising a range of low-rise hi-tech buildings in a campus-style environment providing up to 80,000sq m of floorspace for industries associated with research and development.

Previous schemes for the area have failed to obtain planning consent mainly because of potential traffic problems.

Alarm over accounts

A ROW over the market value of industrial property and land has led to the government auditor, Sir Gordon Downey, refusing to approve the accounts of the Mid Wales Development Agency for the second year running.

Downey has expressed alarm that MWDA insisted on recording the book value of its industrial property instead of admitting that the market value of the assets was much lower.

An Audit Commission report revealed there was a 60 per cent difference between what it cost to acquire the land and buildings and what they would be worth on the open market.

Experts have estimated the industrial assets of the former Development Board for Rural Wales were worth just £14.2 million and not the £34.7 million claimed by the development agency in its accounts.

Family team wins appeal

A FATHER and daughter team of architects has won an appeal against South Staffordshire District Council for the construction of a hilltop bungalow near Codsall, Wolverhampton.

Recently-qualified Melanie Wild conducted the appeal for her architect father, Ron.

The DoE inspector has ruled

Tower blocks

from page 1

Group structural engineer Brian Scollick said the council found joints to be "well made and well constructed". But he confirmed that two of the five blocks on the estate were earmarked for demolition "in the near future" because of their general structural condition.

Webb also found defective joints filled with rubbish, old cement bags and newspapers in the Yorkshire Development Group system built estate at Hunslet Grange in Leeds.

"If I can find these problems surely the Buildings Research Establishment can find them too," he said.

Merger likely as US firm prepares for UK flotation

AMERICAN architects Clark Tribble Harris & Li (CTHL) are planning a flotation of 25 per cent of their North Carolina-based practice on the UK's Unlisted Securities Market, and could eventually merge with an English practice.

Attracted by the booming development market in London, the fast-growing architects want to raise at least £3.75 million on the USM, possibly in November, through brokers Savory Millin.

CTHL, who claim they are the 12th largest architectural

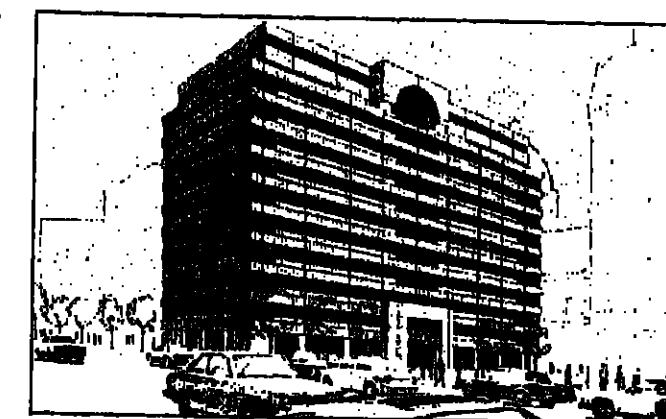
haven't identified any specific company yet.

CTHL's turnover this year, according to their brokers, is likely to be up to \$14 million from \$9.5 million, while gross profits should be around \$1.4 to \$1.5 million. Profits last year rose by 64 per cent to \$1.24 million.

CTHL should be able to build on the success of DY Davies, the first quoted architect in this country, who came to the USM in April.

The firm is headed by Gerald Li, an American Chinese, who is a former graduate of Rensselaer Polytechnic Institute and a former staff member of the department of architecture at the University of Hong Kong.

His two partners are Michael Tribble, who is in charge of project development, and Joseph Harris, who is responsible



for the financial management of CTHL. All are in their mid-40s and the firm is effectively owned by the three of them. It employs about 200 people, 80 of whom are professionals.

Initially CTHL will be banking on the ever-increasing number of US firms over here using the practice—possibly for interior design and layout contracts.

BR admits illegal demolition

BRITISH Rail has admitted demolishing a Victorian footbridge at the Old Station, Pelsall, near Walsall in the West Midlands, without obtaining planning permission.

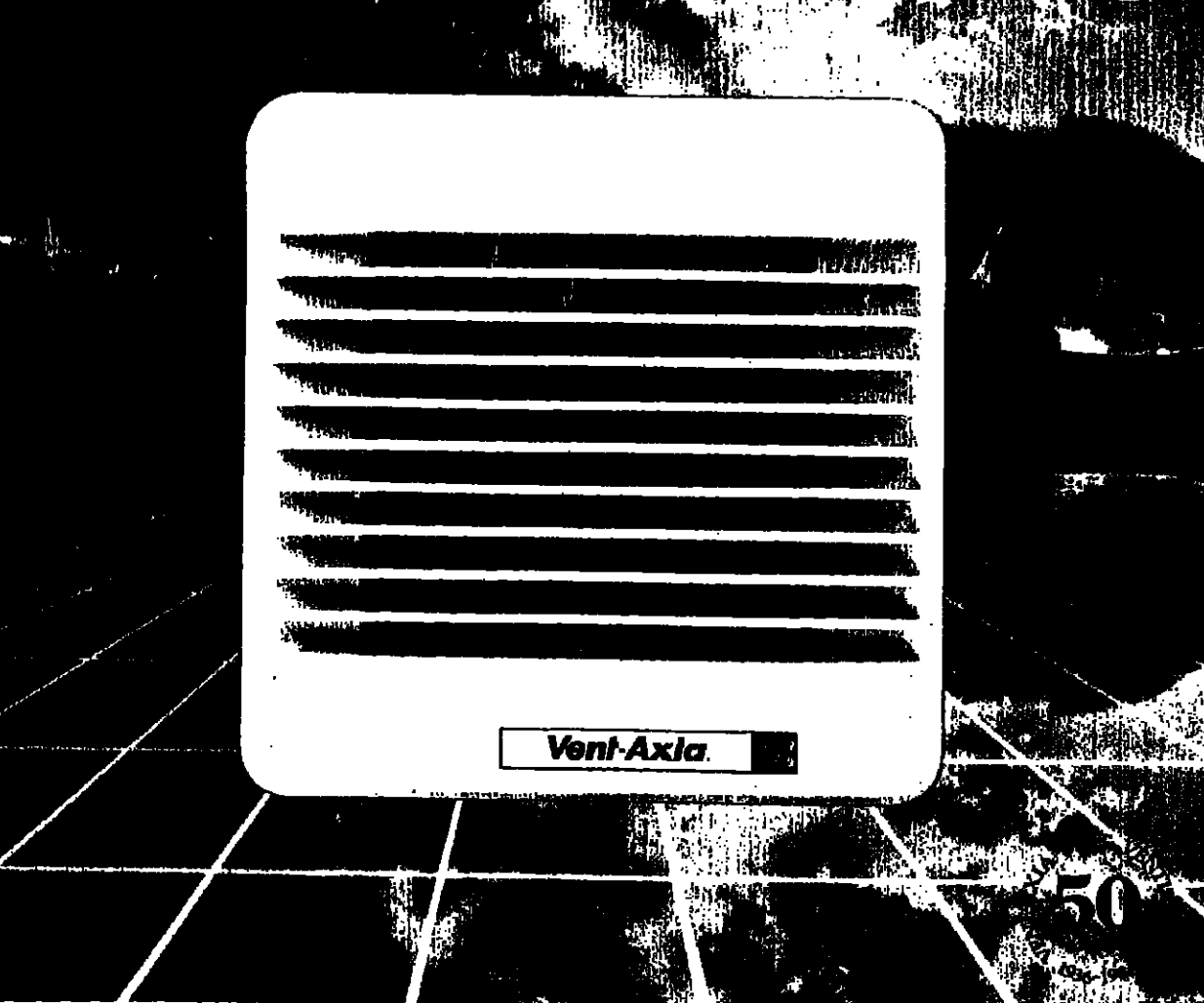
A BR spokeswoman said: "Although we did not have permission from the council at the time, the council do recognise that the bridge would have to be removed away because it was subject to vandalism and was unsafe."

Walsall Metropolitan Borough Council has decided to take no action against BR, though the demolition of the bridge earlier this year roused a storm of protest from local councillors.

Councillor Alfred Owen dubbed BR's action "deplorable".

And he claimed the local conservation society had not been consulted.

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Architects suggest radical rethink for future of Dundee

SCOTLAND'S largest firm of architects, James Parr & Partners, have come up with their own solution for the future redevelopment of Dundee.

The proposals, called Dundee 2000, have yet to be seen by Tayside planners.

The James Parr plan comes at a time when a new policy for retail planning has just been adopted by the region, which has now to sort out a massive amount of applications, many of them referring to Dundee.

One of the contentious areas includes the waterfront development being pursued by the

Scottish Development Agency in partnership with Dundee city and the region.

In many ways it is this scheme which has finally pushed the architects to come up with their solution for the city by using five main areas.

The first part of the study is a detailed analysis of land use, traffic and pedestrian movement, and townscape.

It sets out the broad principles of development based on the main retail core running between the Wellgate and Overgate centres.

The five development areas discussed at length are Over-

gate, the Country Bus Station, the area north of the railway station, the Victoria Dock and the prime shopping area, Murraygate.

In essence James Parr suggest

By Chris Dobson

that the retail element in the SDA's scheme be scrapped and replaced, with the bus station being relocated onto the site available north of the railway station.

A proper travel centre could then be created encompassing bus, rail, taxi, car hire and airport shuttle with some office

facilities and public amenities.

The Murraygate area, the prime shopping core already short of retail space, could be expanded, say James Parr, by creating a multi-level scheme containing speciality retailers extending east over Seagate linking in with a major store proposed for what would be the old bus station.

The development would have heated malls under full glazing and escalators and lifts would be used to ease access between the levels caused by the sloping site. The existing Overgate Centre would be extended with a major retail store, and extra car parking and general upgrading

would be provided.

Finally, the Victoria Dock, now the home for RRS Discovery, would get a facelift and continue to be the home for Dundee's historic fleet rather than seeing the Discovery moved to become a centre-piece for the SDA scheme further up the River Tay.

Alfred Maloco, a James Parr partner, said he was confident that the proposals in general terms would be acceptable to everybody and that it was a "commercial architect's perception of how things can be done".

It is understood that developers have already expressed an

interest in the proposals and that full consultations with all the relevant authorities will follow shortly.

A spokesman for Tayside Regional Council said it "had not seen or discussed the proposals so could not comment further".

Exclusive plan

A PROFESSIONAL Indemnity Insurance Scheme exclusively for members of the British Institute of Architectural Technicians will be launched at the institute's National Practice Conference on September 19.

Government boost for Greenwich proposals

PLANS by architects Moxley Jenner for the development of a historic part of Greenwich with an 80-bedroom hotel, office and retail units and a car park received a Government cash boost last week.

The DoE gave a £728,000 urban development grant to the scheme, in Burney Street in the West Greenwich Conservation area.

Government staff claimed the scheme would not have gone ahead without the UDG because of the high cost of developing the site, which has been almost derelict for more than 20 years.

Housing minister John Patten said: "This is a good example of a scheme which will upgrade a semi-derelict and difficult site to harmonise with the character of the rest of this historic part of Greenwich."



WORK has just begun on the £700,000 reconstruction of St Mary's Cathedral in Wood Green, north London, following severe damage by fire earlier this year. Building contractor Mansell is carrying out the main task of rebuilding the two-part roof and a redesigned sanctuary in place of the weakened rear wall. Supervising officers are Bullen & Partners and quantity surveyors are Thomas Barrett Partnership.

Surveyors demand major changes in planning procedure

THE RICS has published its new blueprint for Britain's planning system, *Strategy for Planning*, which calls for far-reaching changes and strongly criticises existing policy.

The RICS wants to see strategic decisions of national importance taken out of the local planning system and decided by Parliament, while a later public inquiry would only deal with possible sites or routes for the project under discussion.

Also the RICS sees no need for the environment secretary to approve county structure plans. This tier of the present planning

procedure could be removed, it argues, if the government laid down clear guidelines on the main issues, such as housing, transport, and employment, in an annual statement on which local authorities could base their

By Lee Mallett

plans. The DoE would only check to see that the broad guidelines were being adhered to.

"The fact is the present system is not working," said John Trustram-Eve, president of the RICS planning and development division. "A lot of the present problems come from what one could call a policy vacuum."

"If this country is to make economic progress, the planning system has got to produce more rapid and rational decisions. This requires only minor alterations in the statutory framework, but profound changes in its administration. If we fail, we will get neither public harmony nor economic pro-

gress — the worst of all worlds." Faults the RICS sees at present include the excessive influence of the public on the system, the lack of clear, defensible "robust" policies and the growth of "excessive" political influence at local level.

"One of the main defects of the present development plan system is the time it takes for plans to be prepared, approved and up-dated," says the RICS document. "As a result many policies are obsolete... by the time they are formally adopted."

"The target should be... to monitor policies annually and to update the plans themselves every two years." The RICS has also published *Housing — the Next Decade*, a report which includes a package of measures designed to foster a consensus of opinion as to housing policy. Its recommendations include scrapping mortgage tax relief and housing benefit and replacing these with housing allowances, phasing out rent controls, a much higher rate of housebuilding and tax incentives to encourage repairs.

Architects called in for major Welsh initiative

ARCHITECTS will be expected to play a key role in a Government initiative to tackle derelict areas of Wales.

Last week the Welsh Development Agency set up a six-strong urban development unit, including one architect and a land-reclamation expert.

The architect, John Pavitt, was technical director of the agency with experience of new housing developments in Wales.

But a spokesman from the agency said most of the work would be for architects in private practice, backed by developers with large scale

tourist and leisure projects.

Architects from South Glamorgan County Council could also be involved.

A start has already been made on the Cardiff docks area. A multi-million pound project involving the construction of a marina, housing, offices, shops and restaurants, is now in the pipeline.

But the agency stressed that Cardiff was only the first of many derelict areas — which will also include mining valleys — to be singled out for major regeneration.

Planners head for Spain on the Pru

NORTHAVON District Council's planners have accepted a trip to sunny Spain from the Prudential Assurance Company, which wants to build a shopping centre at Cribbs Causeway near Bristol.

The planning committee is due to consider two rival schemes for the site in October and the Prudential has planned the trip to visit a shopping centre in Madrid to show what could be built at Cribbs Causeway.

But the council has hit out at suggestions that it could be influenced by such a trip.

Committee chairman, Dennis

Fox, is reported to have said: "I find it offensive to suggest members of this committee could be bought by Prudential with a flight to Madrid."

The planners have already accepted trips to Brent Cross and Gillingham from JT Bayliss, the other developer bidding for the site.

Councillor Leslie Bosisto said: "I think there is a danger of us being accused of bias if we don't take up this opportunity."

Only three of the 24-member committee voted against the trip, which is due to take place in October.

Construction congress gets set to try again

MP Sydney Chapman and Sir Andrew Derbyshire will be speaking at the rescheduled inaugural meeting of the Construction Industry Congress on September 22 at the Harry Stanger Headquarters in Epsom.

The CIC's grand launch was originally planned for more than 1,000 delegates at the Barbican last April, but was cancelled due to lack of interest.

The founders, under managing director Maurice Pickering, have since been meeting to raise funds for the congress.

Main resolutions for debate are: that a congress to advance the general interests of the construction industry be formed; that the congress caters for all sectors of the industry; and that a steering committee be elected to promote these objectives.



A history of destruction

Built in the 1790s, this imposing Neo-classical house is just one of 373 fine Welsh houses demolished during the last century. Save's latest report, *The Lost Houses of Wales*, highlights the scale of losses, but hopes to encourage a greater public awareness of the many houses still standing. The report details the houses county by county, with information on the architects and the families who commissioned them.

Incredibly, says Save, this wholesale destruction has been little noticed or resisted. It urges the Secretary of State for Wales and local authorities to stop a century of damage and neglect "and to respect these houses as fine and charming assets". Copies of *The Lost Houses of Wales*, by Thomas Lloyd, are available from Save, 68 Battersea High Street SW11, £6.50 per copy.

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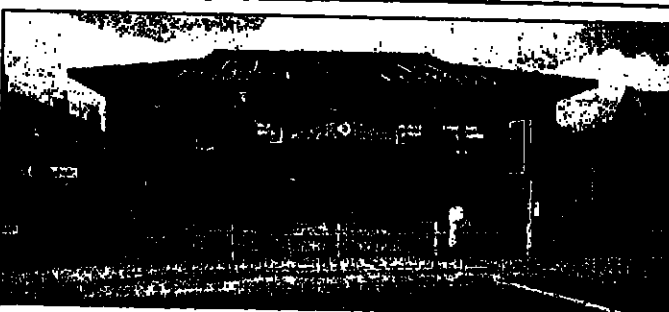
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Giving their eye teeth...

Architects Crampin & Pring have made the dreaded visit to the dentist more inviting, with this bold, zippy design for a shared surgery, with an optician's, in Nottingham. In contrast to the asymmetric balance of floor area required — split on a 60-40 basis between the dentist and optician — the building's external appearance is strictly symmetrical, save the amusing coloured glass motif on the canopy, describing the building's separate functions. A hi-tech yellow handrail and rain-water channels make a pleasing contrast with the heavy brickwork and blue-black slate roof.



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Planning Exchange starts new service

A NEW information service on "urban development and renewal" has been launched by the Planning Exchange, the non-profit organisation which acts as an information centre on environmental, economic and social planning.

The service, which costs £225 a year to subscribe to, is designed for practitioners and policymakers in the private and public sectors involved in development and urban renewal. Subscribers receive a monthly selection of information sheets on various topics.

Three types of information will be offered: details of initiatives, including case study sheets; reviews of development mechanisms and partnership agreements, together with supporting reference material.

Details: the Planning Exchange, 186 Bath Street, Glasgow. 041-332 8541.

Facelifts in Soho

A ROCOCO house in Soho, a Victorian Gothic church in Marylebone and two houses in the Soho Conservation Area have won £8,000 in restoration grants from Westminster City Council.

St Barnabas House, Greek Street, was awarded £3,000. Built by Joseph Pearce in 1740, it features a chapel with a roof said to be a miniature of that in the Cathedral at Arles in France. The public is allowed access to the chapel twice a week.

Westminster has awarded a total of £35,000 in historic buildings grants for local buildings this year.

DoE minister resigns

ENVIRONMENT minister Lord Elton has resigned in order to spend more time with his family.

His replacement will be announced as part of the Prime Minister's Cabinet reshuffle this week.

Landscapers to get Glasgow preview

DELEGATES to the Landscape Institute's annual conference at Keele University next week will have a chance not only to see the Stoke Garden Festival, but also some of the designs for the 1988 Glasgow Garden Festival.

The Scottish Development Agency, which earlier irritated institute members by dragging its feet over the announcement of winners, has now put together an exhibition showing parts of all 44 entries in the festival's main landscape competition.

There are detailed representations of Derek Lovejoy & Partners' winning entry and of the runners-up. One version of this exhibition will go on show at Keele.

Organising chairman Andrew Huxton said that so far about 130 people had registered for the conference, which runs from September 17-20 and centres on the theme "United

Expert puts damper on Chunnel proposals

A LEADING transport consultant has cast serious doubts on the proposals for the Channel Tunnel now going through Parliament.

Too much political and commercial pressure is being put on planners, John Ogilvie told the Design & Industries Association this week, and public consultation has been hopelessly inadequate.

He said the proposed terminal at Cheriton would act as a magnet and attract massive handling depots and industrial

development with detrimental environmental consequences. Provisions for the tunnel itself would cause problems, especially in the event of a breakdown or emergency, and lengthy delays to the services were inevitable.

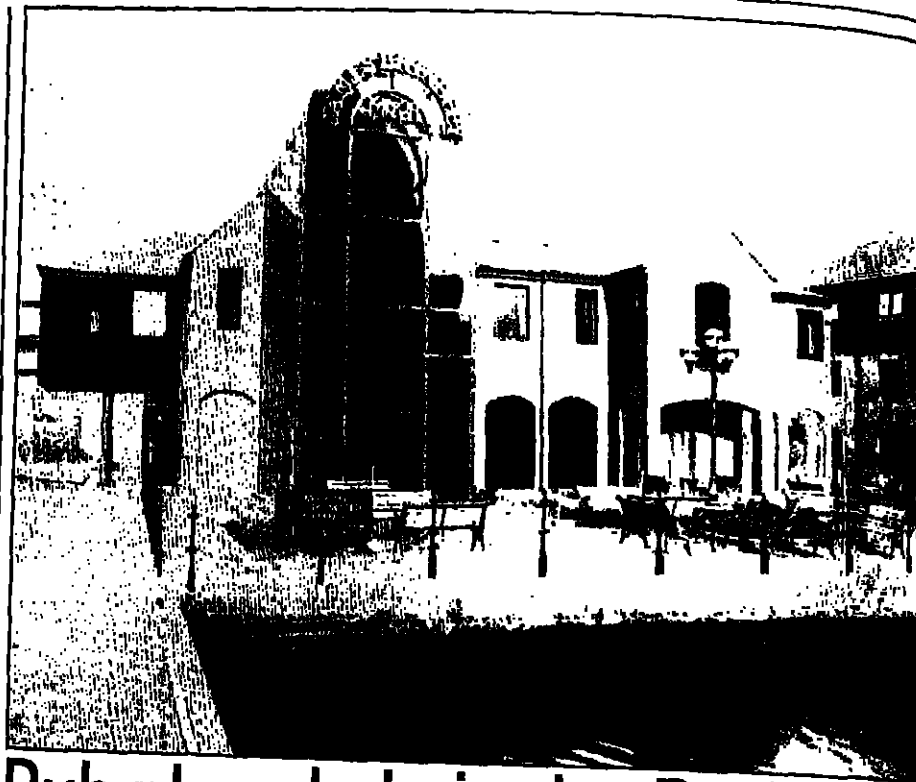
Ogilvie suggested that for a comparatively small extra initial investment a more efficient and less environmentally disruptive scheme could be built.

His outline proposal consists of a three-track tunnel, two like the rolling motorway of the Channel Tunnel Group, and the third a track for international trains, reversing in flow each hour.

But the terminal would be located at Hailing in the Medway Valley, some 40 miles inland, where a large disused chalkpit could be exploited to reduce its visual and acoustic impact. Ogilvie said this would have several distinct advantages:

- reduction of road freight through Kent;
- better connections for the rail network; convenient road links with the M25, M20 and M2;
- massive employment prospects for the depressed Medway towns;
- reduction of development pressure on green belt;
- construction traffic for the tunnel can travel on the early phase rail link across Kent;
- 6.5 million tonnes of chalk from a new North Downs tunnel can be used in construction of the tunnels.

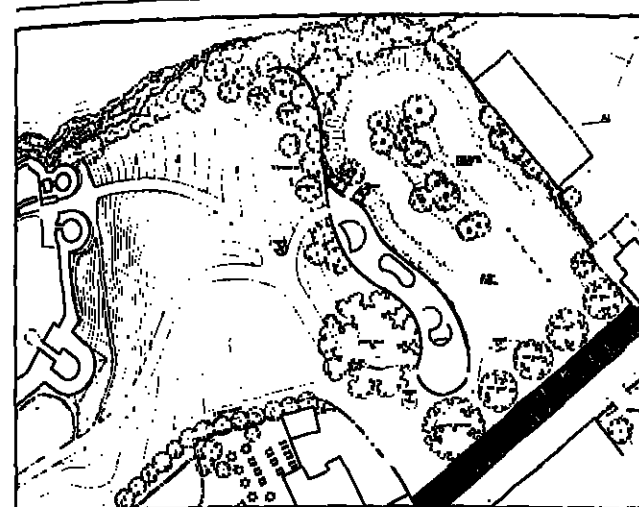
Ogilvie estimates the additional cost at £150 million.



Pub plugs hole in the Basin

The James Brindley is the latest new building to grace the "up and coming" backwater of Birmingham known as the Gas Street Basin. Alan G Goodwin Architects were anxious to pay respect to the Victorian character of the

important canal junction as well as contribute to the revitalisation of the area. The £450,000 pub is built with water along two sides and the glazed vault contains a floor lounge with a snug bar below.



Subtle design approach wins castle competition

Maguire & Murray have won the competition for the design of a new £500,000 visitor centre in the grounds of Chepstow Castle. Their proposal, "the most discreet and subtle" of the 69 entries, consists of a long serpentine stone wall, 3.6 metres high, which follows the contour lines some 6 metres downhill from the castle, providing visual separation between the car park and the grassed slope. The wall widens through part of its length to form the flat-roofed centre, which is top-lit by a series of conical lanterns. The interior is planned to allow free circulation to the information centre, shop, exhibition space, video display and toilets, with the main route from the car park passing through the western end. The eastern end is formed into a covered concourse with another entrance to the centre. The coarse rubble external facing is of local stone and the roof is covered in a deep layer of beach pebbles. Chepstow is the second recent competition win for Maguire & Murray, following that for Pembroke College in Oxford.

Manser defends Rolland in Drawings transfer row

MICHAEL Manser has leapt to Larry Rolland's defence over criticisms of the plan to transfer the RIBA Drawings Collection to Portland Place, which has led to the resignation of John Harris as curator of the collection.

Past RIBA president Manser initiated the plans to reunite the Library and the Drawings Collection during his presidency from 1983 to 1985.

And he defended his actions along similar lines to Rolland. Manser said: "RIBA Council voted unanimously to reunite the Drawings with the Library at Portland Place so that the institute's most treasured possessions could be shared with a much wider public."

The Drawings Collection would keep its identity after the transfer by having exclusive use

of the No 68 entrance to the building, he said.

The reconstructed interior of 68, currently being used as office space, would offer twice as much space for the Drawings as Portman Square offers.

Plans to extend the RIBA building to include a new gallery

By Alan Thompson

would provide much-needed exhibition space.

"The Drawings Collection will enjoy a very much increased exposure," Manser said.

"In 1983, 6,725 people visited Portman Square. By comparison the Library alone discounted the multitude of other visitors to the RIBA, received 40,494 callers.

"Many more visitors can be expected to visit the new gallery.

The Drawings are, after all, as good a collection as there is in the world and deserve to be seen by more people."

Manser praised Harris as a "man of erudition, charm and persuasion who has attracted to the collection many new acquisitions of unique and precious material". But he was critical of dissenters to his plan.

"Most vociferous are those who are not RIBA members — art and architectural historians and journalists who have benefited most from the world-class free research facilities provided by the RIBA's Library and Drawings", he said.

"They would like to preserve the elegant, somewhat exclusive atmosphere of Portman Square."

Meanwhile Harris and the institute have issued a joint statement on his resignation (story page 1).



Manser — supporting the president.

LDDC investment plans dismissed

THE London Docklands Development Corporation has announced a "corporate plan" to attract £2 billion worth of private investment into Docklands over the next five years.

But the Docklands Forum has dismissed the LDDC's plan as a cynical attempt to speed up and increase central government's funding of the LDDC because it is worried about the outcome of the forthcoming general election.

The LDDC said the publication of the plan was part of its "open information" policy. But a forum spokesman said the LDDC "has no strategy for effective consultation; they are trying to develop it, but they haven't got any idea."

Policies aimed at improving local services include a contribution of £12 million towards educational projects, and the LDDC aims to ensure that half the new housing built on its land is affordable by first-time buyers and local residents. The corporation is also "fostering" partnership arrange-

ments between local councils and private developers to build mixed schemes for rent and sale.

So far, more than 40 acres of land has been offered to the three Docklands councils for rented housebuilding, according to the LDDC. This has not all been taken up.

The Docklands Forum would like the LDDC to look much more seriously at improving school education in Docklands, in addition to providing better training for local workers.

"The success rates in local schools are incredibly low", said the forum spokesman.

The Government had failed to include schools in the LDDC brief.

Official mass

THE first official architects' mass will be celebrated by Cardinal Basil Hume, Archbishop of Westminster, at the Jesuit Church of the Immaculate Conception, Farm Street, London W1, on Friday, November 7, at 3 pm.

City Corporation prepares meat market for chop

THE City Corporation is reviewing the Smithfield Local Plan with a view to opening up the area for a possible Spitalfields-type development.

Although Smithfield is a conservation area, the meat market could be faced with closure since the market buildings fall far short of modern hygiene requirements.

A questionnaire sent out by City planners has asked local residents and businesses to give their views on the area.

Most people are thought to be

keen to see the market moved out of the area, because of the heavy traffic congestion and refuse surrounding the central buildings.

But a City Corporation spokesman said the internal market policies were the subject of a separate review.

The "market survey is being conducted in isolation under our own regime".

Both the results of the local plan and market review should be known by November.

Gaol 'chaos'

THE Home Office has been accused of "monumental incompetence" in building prisons.

The Prison Reform Trust claims millions of pounds have been wasted in cases including the building of a £20 million high security prison which is surplus to requirements and said that design faults identified in existing prisons had been repeated.

New diploma

A DIPLOMA in building maintenance management has been launched by the Institute of Maintenance and Building Management. Subjects covered include legal and contractual responsibilities and information technology. Details from the director of education and development, IMBM, Keels House, 30 East Street, Farnham, Surrey.

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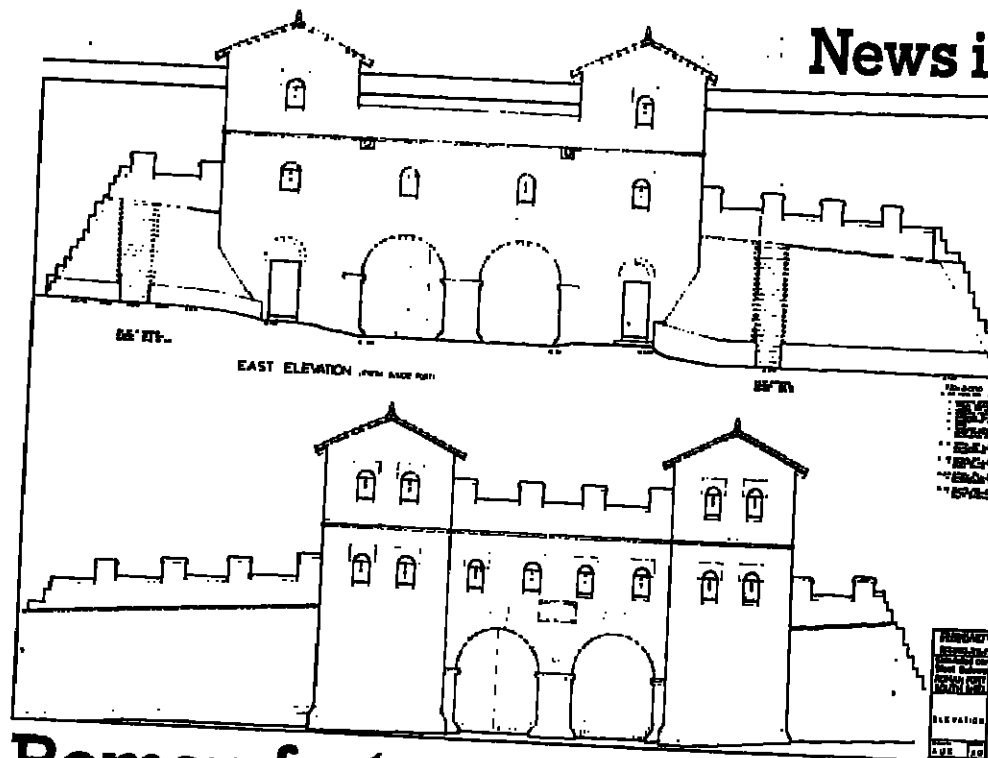
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Roman fort gets update

Local architect David Ash is masterminding the reconstruction of the 2,000-year-old Arbia Roman fort in South Shields on behalf of the Tyne & Wear Museum Service.

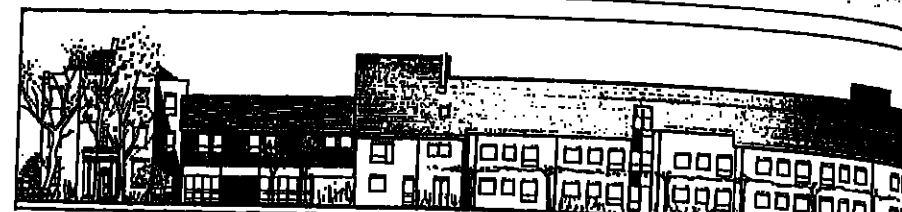
John Laing Construction is the main contractor on the £500,000 project, with most of the stonework being carried out by subcontractor Laing Stonemasonry.

The fort, which is at the mouth of the River Tyne on the south bank, was a frontier defence base, supply base, and

major garrison until it was finally abandoned in the fourth century.

After this the fort was robbed of its stone and by the late 19th century there were no visible remains and the site was covered by streets and housing.

In 1949 a programme of excavation was undertaken by Ian Richmond and in 1953 a museum was built on the site. Since 1977 more than 40 per cent of the fort has been covered. The rest will be constructed using new stone.



Archbishop holds court

The Archbishop of Canterbury, Dr Robert Runcie, laid the foundation stone for this Church Housing Association complex in Brixton this week. Designed by Peter Barafout & Partners, the Acre Lane development will provide a 24-room hostel with full communal facilities, six shared housing beditters in the listed Bucknell House and 29 sheltered flats for the elderly, to be called Robert Runcie Court.

Runcie's involvement follows a report from the archbishop's commission on urban priority areas, published last year. The architect's scheme, the association's response in an area of much deprivation.

The picture shows from left to right: Blackwell House, the hostel for single people, and sheltered housing.



Infill

Sites and sounds

Jonathan Glancey



Quitting a sticky wicket

THE more creative staff at the RIBA often find themselves playing on sticky wickets, likely to be caught in the slips.

But what a surprise when John Harris resigned, 30 years not out, branding his team mates oafs and lunatics. Come, come Harris, play the bureaucratic game. Resign quietly, but don't let the side down.

No one can blame Harris for walking out; the institute hasn't exactly made life easy for him. But then the opposite is probably equally true. Harris certainly wouldn't have got where he has today without the RIBA and piles of uncatalogued and undisputed drawings at his disposal. But his loss could be more than just the RIBA's. Mrs Phyllis Lambert, the Seagram heiress, will soon be paying Harris to buy up British and European drawings for what will prove to be her superb and pricey collection in Canada. It's a pity that the RIBA and Harris couldn't have come to terms (other than the cosy formal official announcement this week). I think that the bureaucrats and politicians at 66 Portland Place were more than a little jealous of Harris' popularity and his ability to woo the smartest (and richest) people that mattered to Portman Square. Everyone enjoys going to the openings at the Drawings Collection, while it's a lot harder to make occasions sparkle at Portland Place. Harris may have led the institute a merry dance on occasions, but their's is the real loss. And the next man in? There won't be one. Not that the Drawings Collection is to get the chop, simply that the charming, but quieter, Jill Lever is hot tip for the job.

Vanity publishing

SCORPIO reported briefly on Clive Aslet's hagiography of Quinlan Terry last week. But more needs to be said. How on earth does Viking, the publisher, expect to sell an obvious puff for an architect at forty quid a shot? And why is the text the copyright of both Aslet and the architect? Make no mistake, this is no let-it-all-hang-out blog in the racy Bryan Appleyard-meets-Richard Rogers style (one of the best architectural biographies yet), but a carefully edited and architect-approved story that conceals as much as it reveals. If Aslet thinks that he can start a new architectural movement along the lines of Jencks' post-modernism or Libby Farrelly's "New Spirit" (about 10 per cent

proof in the August *AR*), I fear he's sadly wrong. What's more, the butler at Terry's house for Jocelyn Hambro, Waverton, carries no torch for God's architect. According to the trilling Aslet, he has to use the same stair as The Family, whereas in the old house he had free use of the servants' back stair. Is Terry a closet Modernist after all? Perhaps those years with Jim Stirling and CH Elsom weren't wasted.

Palumbo's penguin

AN excellent lunch cooked by my old friend Tolly Lubetkin reveals some odd moments in the life of Peter Palumbo. In return for his support of the Mies tower at Mansion House Square, Palumbo is employing the octogenarian Georgian architect to restore the Penguin Pool at Regent's Park Zoo.

Apart from this generous and sensible commission, Palumbo has been sending parcels of curios to Clifton that had best not be described in such a print organ as this.

In the meantime Lubetkin tells me that he lives in mortal fear of some conservationist throwing a hand grenade through his Regency cottage window. Apparently he is an embarrassment to the conservation lobby. They are against the changes, although minor. Lubetkin plans for the pool, designed to make life better for the DJ-clad birds. Lubetkin, by all conservationist rights, should be dead by now. All power, in this instance, to both Palumbo and his architect.

Weight problem

JIM Stirling's mind is turning on weighty matters. He is designing an abstract sculpture for the RA Foster, Rogers, Stirling show which opens this October. The sculpture, based on elements of the Stuttgart Gallery, weighs something in the order of seven tons, which apparently threatens the first floor joists of the venerable Academy. Can this be some sort of joke? Peter Murray and Deyan Sudjic, organisers of the show, should be told.

Free the spirit

FINALLY, what is all this "New Spirit" stuff about? I'm sure I remember drinking in the Red Angel bar in Vienna, designed by young spirits Wolf Prix and Otto Kapfinger — both, by the way, old enough to be my father — more than five years ago. I am not a drinking man, but there must have been some reason why I forgot to publish the place in the *AR* back in 1981.

Sheltered shelters

One of Britain's first purpose-designed wind-sheltered housing designs will start on site at Milton Keynes early next year. Designed by the EVO Partnership, the 51-home scheme for the Sutton Housing Trust at Skid Lodge will be protected by specially planted shelter belts of trees.

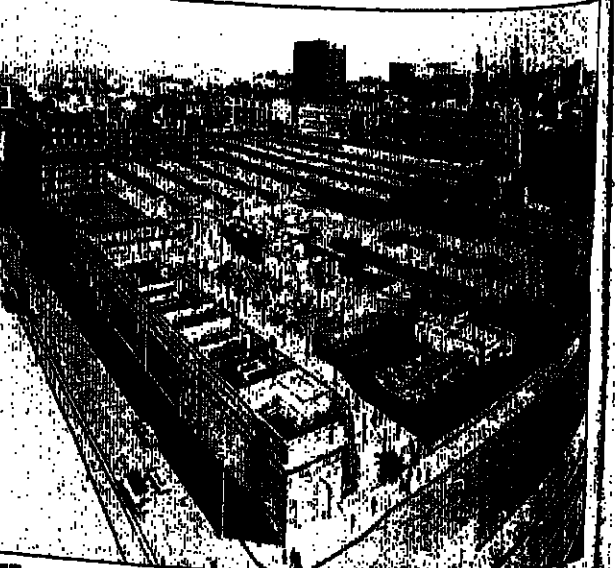
The accommodation consists of a mix of two- and three-bedroom houses, one- and two-person flats for the elderly. A community building and a water link to the flats by a speech alarm system, complete the scheme, all within the Milton Keynes Energy Park.



Down the tubes

Demolition work recently started on the Grade II-listed Palace Chambers opposite Big Ben, which had been used by the Foreign & Commonwealth Office. It follows the discovery that the beams supporting the heavy Victorian building over the London Underground are deteriorating and would have become unsafe.

Initially it is being demolished one floor at a time down to the first floor, so shops at ground level can remain open. When their leases expire they will be demolished. The Property Services Agency plans to build new offices on the site for members of Parliament.



Flying the train

This cut-away shows the new air terminal at Victoria Station which is to be completed in September 1987. Designed by British Rail's chief architect department, the £3.5 million terminal will provide 16,000 sq m of passenger waiting space for Gatwick air passengers.

BUILDING DESIGN

Building Design is published from Morgan Grahame House, 20 Colindale Avenue, London NW9 1TA. Tel: 01-275 6777. ISSN 0263-4812.

The Editor's Comment



Bread of heaven?

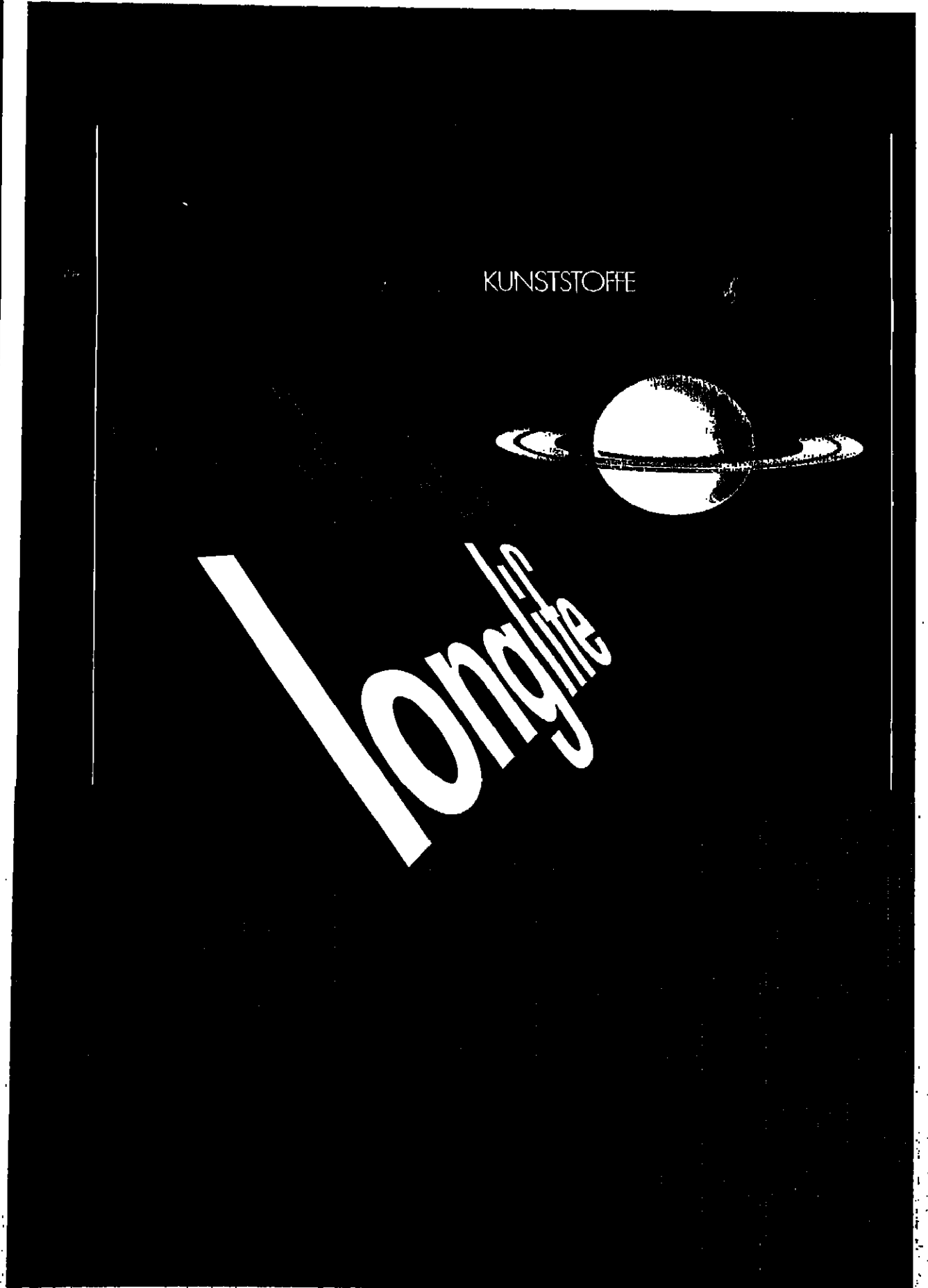
IS it or is it not appropriate for the Church of England to sell St Mark's, Mayfair, to an American food chain called Garfunkels for the dispensation of hamburgers and other fare? The Diocese of London has produced the usual weary arguments as to why there is no religious or cultural use to which this building might be put, though there is ample evidence, gathered by Save Britain's Heritage, that a disposal to a religious organisation could well have been carried out in the not-too-distant past. The Church almost seem to enjoy telling those who care about its building heritage that there is no place for the redundant inner city church, that it is "irrelevant" to the real needs of today's bright, go-ahead, "caring" ministry. No less an authority than the diocesan archdeacon, one Derek Hayward, has responded to critics by noting that the site was sold to the Church by the Grosvenor Estate, and not, as one report had it, donated. This is the sort of self-

satisfied response which makes one dubious about the seriousness with which one should take the *Faith in the City* report, since it seems to imply that the business of church-building is all a question of real estate; since the Church paid its £7,000 in the early 19th century, why, it must surely be ok to cash in on the secular equivalent of wafer and wine — a sesame bun and a bottle of Becks.

As readers may recall, I am all in favour of hamburgers and against the snobbish discrimination which they inspire from planning committees, whose time would be better spent in making provision for more litter facilities. Instead, however, I cannot believe that I am the only person, other than young or old fogeys, to find the treatment of so many churches by the established Church as, appropriate word, distasteful. I don't think you even have to be particularly religious to feel that the conversion of religious buildings into DIY units, nightclubs, restaurants or amusement

arcades is inappropriate. What is more, the Church itself would surely draw the line at certain sorts of uses.

The scandal of the Church's treatment of its building stock is amply catalogued in the new book containing a long section by Gavin Stamp (*The Church in Crisis*, Hodder & Stoughton). It is difficult to avoid the conclusion that an institution which has no faith in its own historic buildings, works of beauty and devotion has little faith in anything. The absurd liturgical changes which have made the Book of Common Prayer sound like a used car-salesman's patter are another indication of a deep-rooted problem. In Mayfair at least, let us hope that God is on the side of the planners who are opposing hamburgers.



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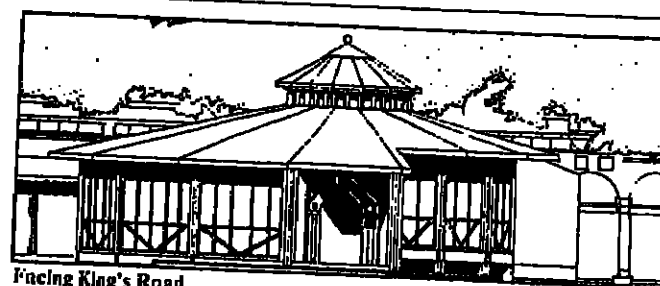
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New attraction for Sloane Rangers

TWO young architects, each working in a different practice, have had the distinction of having a Government appeals inspector, on behalf of the Secretary of State for the Environment, tell them that their proposed pavilion "would look extremely elegant in this setting" and be "particularly attractive at night, when the interior would be illuminated".

The distinction — and the achievement — are enhanced by the fact that the pavilion in question is proposed for the middle of London's Sloane Square, that it is to function as a restaurant, and that the local council and some 500 residents have objected to its erection, for reasons based mainly on ignorance.

At 31 and 32 respectively, Pieter Lette Van Oostvoorne and Farhad Proshani are on the brink of the big time. Although their plans for Sloane Square still have major hurdles to clear before all those Fergieburgers begin to be served up to passing Rangers, they are already looking closely at other venues. In their scheme of things, architecture mingles with philosophy and sociology, hopefully to the benefit of London.

"As places that the public can enjoy, most of London's squares are wasted," Proshani explains. "In spite of the wide-ranging debate about the value of open spaces as generators of social activity, successful attempts to achieve this in this country are few and far between."

"Covent Garden has proved what can be done, but the South Bank has failed to inject life into an assembly of cultural buildings. Elsewhere in London, small open spaces have been more or less abandoned to

traffic priorities — and it was this situation that we decided to assault two years ago. Since we both work in the area, we thought we might as well have a go at Sloane Square."

"The design was developed over a long period, but the immediate constraint was that the structure had to be temporary (planning permission is for a 10-year period only). What has evolved is a building with faceted sides which owes much to the pavilion concept. Since another constraint were items already in the square — the fountain and the war memorial — it is located between the two, with the entrance facing King's Road."

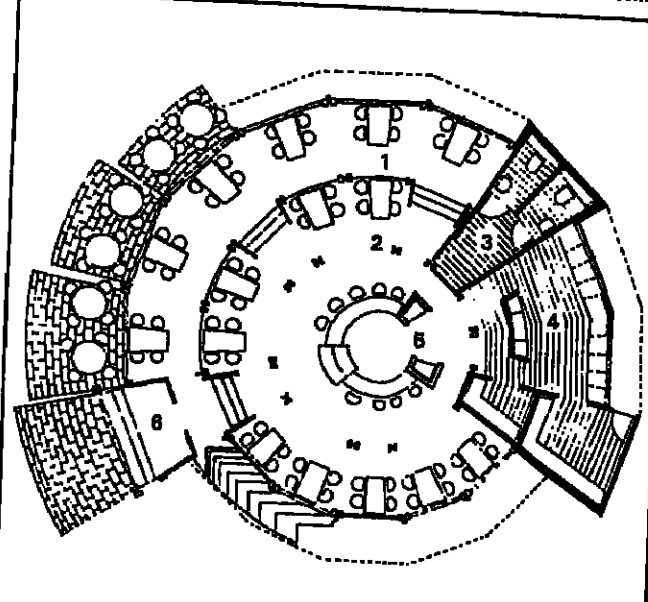
"Climbing two steps and passing through, the client arrives at the first gallery which rotates clockwise round the north side of the pavilion. Even the lowest gallery is raised off the ground, making good views of the square universal, while externally the timber framing posts give a lightweight impression."

"A further two steps bring one to the central upper gallery. On the south side this is glazed on the perimeter and on the other side it overlooks the lower gallery and the square."

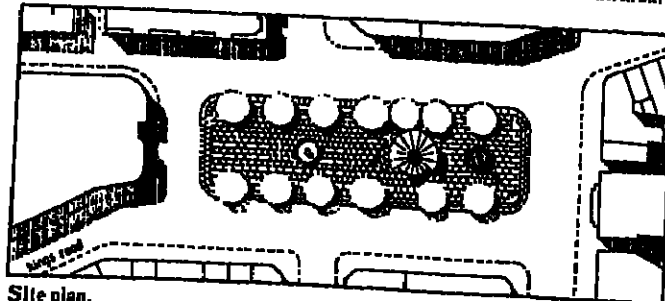
"In the very centre is the serving bar, with lanterns above it for additional light and ventilation. External cladding materials would be timber, stained in natural wood colours, and glass, while the roofs will be covered in bronze anodised aluminium."

"The intention is that the pavilion not appear to be brash but rather settle in easily with the square. We believe there is no need to resort to eye-catching gimmicks."

Mira Bar-Hillel

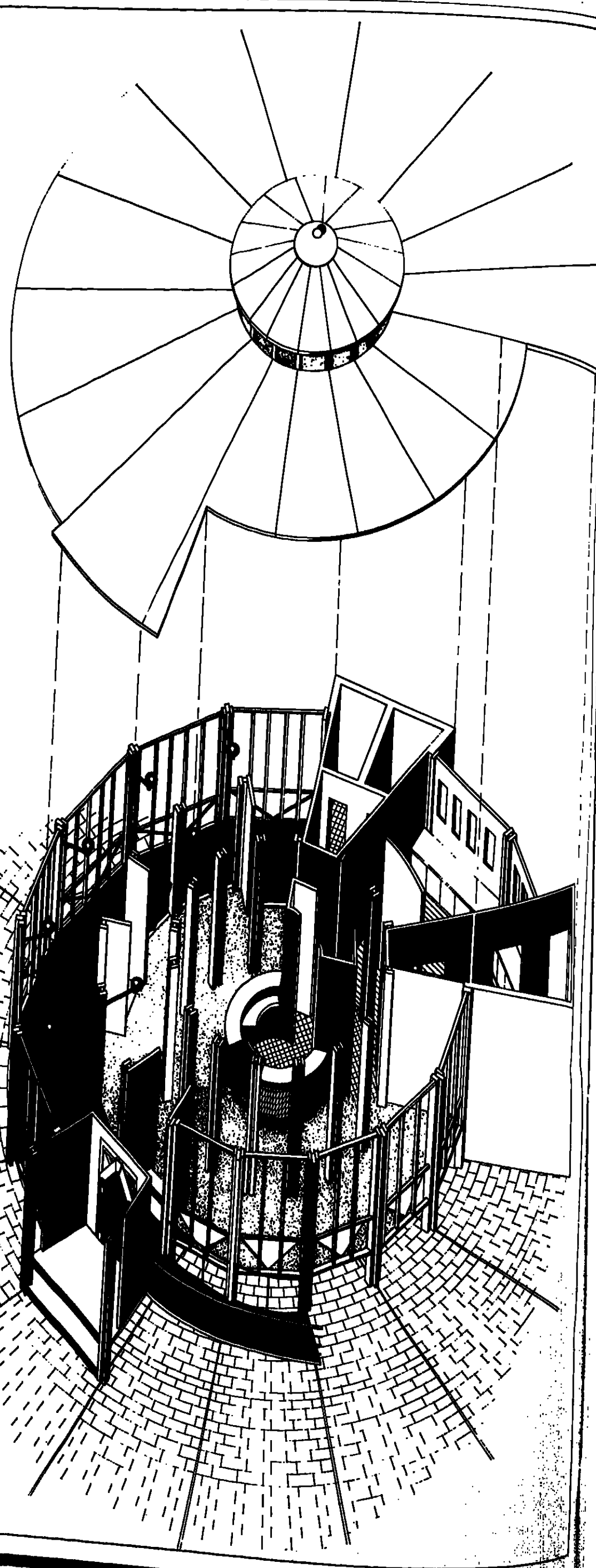


Key: 1 Lower gallery 2 Upper gallery 3 Toilets 4 Main Kitchen 5 Central bar 6 Main entrance



Site plan

Interior axonometric



Scorpio



Royal touch for new urban design prize

WHICH British architect stands to be the first to receive the Prince of Wales Prize for "the most distinguished completed urban design project anywhere in the world"?

Never heard of it? That's hardly surprising as it was only announced last Friday at Harvard's 350th anniversary celebrations at which Prince Charles was guest of honour (US President Ronnie Reagan failed to show as the academics baulked at offering him an honorary degree, in the manner of Oxford and our own leader).

It transpires that an "anonymous" donor has made a \$300,000 (£199,000) endowment to fund a periodic prize worth \$25,000, or £16,582.50 at current exchange rates according to my ready reckoner.

But who could this "anonymous" donor be? The Prince himself? I gather not, as the Exchequer forbids such largesse from the heir to the throne. Peter Palumbo seems rather unlikely, in view of the "glass stump" episode, and ABK for similar reasons. Perhaps it's a grateful Bob Venturi!

Business as usual

STORM clouds are gathering again as the hate-love relationship between community architects and the policy-makers at Portland Place, sparks into life.

No sooner has the smell of wet paint disappeared from the new resource centre, and coordinator Lynne Hutton gone off to have her baby, than battle lines have been drawn up once more.

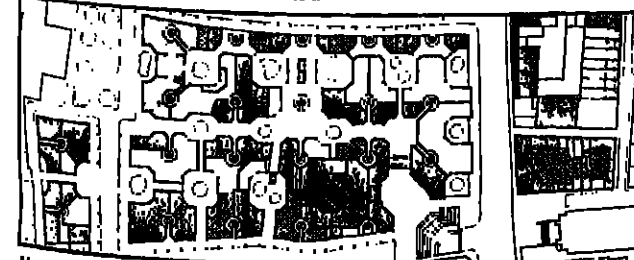
As the great, good and monumentally ambitious gather for the "policy weekend", at which institute attitudes are thrashed out, I regret to report that its commitment to moving community architecture to the "centre stage" could suffer a setback.

Not only are there plans to lop £5,000 off CAG's budget, but some want Hutton's replacement to have her time on CAG business slashed by 50 per cent.

● COMPETITION is hotting up between contenders for Ian Finlay's chairmanship of CAG should he decide to hand over the reins of power this autumn. Front-runners are Ben Derbyshire 2-1 on; Jim Sneddon 15-2.

Lutyens snub from Ridley

ENVIRONMENT supreme Nicholas Ridley has turned



You could be forgiven if this ground plan evokes a sense of déjà vu. Yes, it is the site of Spitalfields Market. And yes, its architect is Richard MacCormac, then as MacCormac Jamieson. But the "leisure" style mixed development, conceived for Radiotelevisione Italiana back in April 1980, makes an intriguing contrast with the current proposal. Grand Beaux Arts axial planning with squares and circuses has now replaced an informal matrix permeated by pedestrian routes and connected courts, malls and atria — almost as if it's an attempt to preempt rival neo-classical masterplanner Leon Krier....

down the opportunity of spending a night in a block of council flats designed by his grandfather Ned Lutyens.

Tenants of the 530-flat Grosvenor Estate in London's Victoria extended the invitation so he could sample at first hand bathing in the kitchen, no central heating, rotting windows, damp, fire hazards and inadequate refuse facilities. "A silly gimmick," said Westminster council housing chairperson, Pat Kirwan.

Tunnel vision

BACK in February, the Design & Industries Association's honorary director, Raymond Plummer, asked Eurotunnel PR chief Don Hunt and environmentalist engineer John Ogilvie to talk about the Channel and its impact on Kent. A senior BR man would chair and host the meeting at BR premises in Marylebone, and BR would spring DIA members a nice little lunch afterwards.

Returning from holiday on August 29, Plummer found that Hunt had chickened out. He had become aware that Ogilvie would expound a plan to shift the car terminal inland to a quarry near the Medway Towns and add a third rail tunnel under the Channel. Hunt claimed this would be "rocking the boat". If Ogilvie spoke, he would not; and, added BR apologetically, they could not host the meeting and there would be no free lunch.

He told BR politely to stuff their lunch, and found Ogilvie (without Hunt) a platform at the Society of Industrial Designers.

Discontented BBC staffers, desperate to avoid moving to White City, are putting it about that the site is an old ash-pit and will cost as much to develop as Foster's Langham Place scheme. I don't blame them!

10 years ago

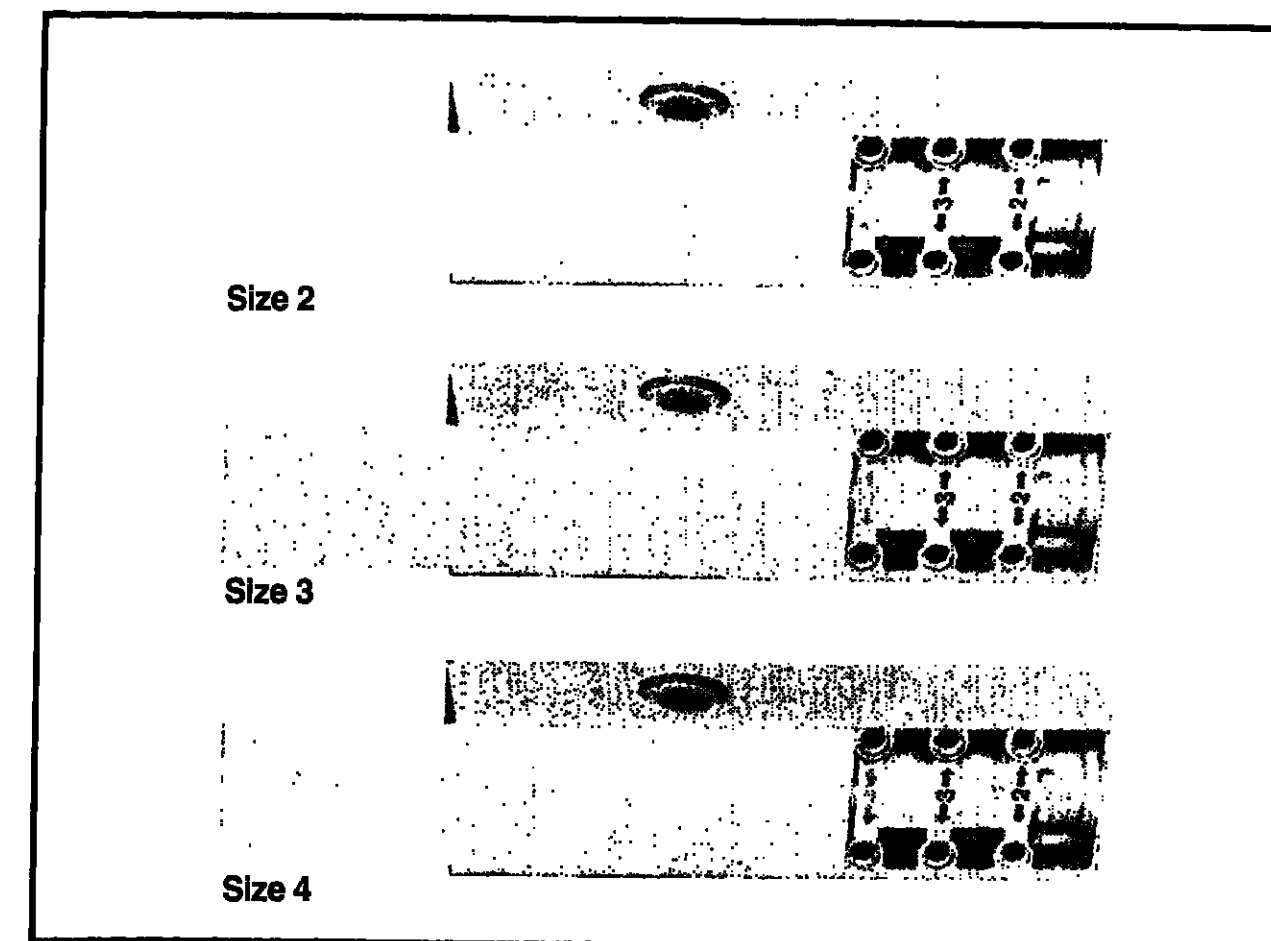
A DRAFT government circular on planning suggests housing densities should be eased in inner city areas. The aim of the circular is to discourage development of greenfield sites. Building Design, September 10, 1976.

Statistics



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More control over defects

From John Newlove

TWO years ago (March 9, 1984) you reported attempts made by the Institute of Clerks of Works to encourage changes in the JCT 80 Form of Contract, particularly with regard to Clause 12. You also reported the negative response from both the JCT and the RIBA.

There is now firm evidence that extra-contractual procedures are being used in attempts to overcome the obvious deficiencies in Clause 12. An architect may agree at the commencement of work on site that every direction, whatever its content, will be confirmed by an architect's instruction. Alternatively, the wording of a direction may be agreed between the architect and the clerk of works before it is issued. Obviously this takes us nearer to the day when clerks of works will receive delegated authority to issue instructions.

However effective these pro-

cedures may be, the fact that they are considered to be necessary shows that the provisions of Clause 12 are unsatisfactory. And what is the legal vulnerability of an architect or organisation when recommending or using a form of contract which is known to contain an unworkable clause?

The provisions of Clause 12 are summarised below:

- The employer is entitled to appoint a clerk of works.
- The clerk of works exercises his duties "solely as inspector on behalf of the employer". (The word "solely" appears to be in the wrong place. It would surely be better placed after "inspector".)
- The clerk of works is under the direction (presumably "guidance") of the architect/supervising officer.
- The clerk of works may give directions (guidance), but not instructions to the contractor, but only in respect of matters in

which the architect/supervising officer is empowered to issue instructions. Such guidance, even though not an instruction, is to have no effect unless confirmed in writing by the architect/supervising officer within two working days and it only becomes effective from the date of confirmation, not retrospectively to the date when it was first given as one might reasonably expect. This seems to make the whole procedure quite pointless and, in addition, the two-day limit is likely to be impracticable in many cases.

The employer's needs with regard to inspection are:

- To be entitled to appoint clerks of works or other inspection staff in such numbers and with such skills as may reasonably be necessary to provide effective inspection in all trades.
- For him to owe no contractual obligation to the contractor in respect of inspection.
- For his inspection staff to be under the control of the architect/supervising officer but accountable to the employer for any failure to inspect adequately and at the proper time.
- For his inspection staff to be able to issue, without any delay, an order for the removal of work which is not in accordance with the contract.

For defective work to be removed in reasonable time so that other work is not unnecessarily delayed or interrupted.

For inspection staff to be provided with facilities for the proper exercise of their duties.

For the withholding of payment for work which is not in accordance with the contract.

The provisions of JCT '80, including Clause 12, go only part of the way towards meeting these requirements.

Employers should consult their legal advisers with a view to correcting the deficiencies in Clause 12, and they should consider the practicability of authorising clerks of works to issue at least one type of instruction, namely an instruction to order the removal within seven days of any work which is not in accordance with the contract. If this were to be done there would be more positive control of defects, directions would be of reduced significance and the time-limit could be removed, architects would become less vulnerable with regard to failures, and there would be no need to wait for action by the JCT or RIBA.

John Newlove
Hull

Monstrous con trick

From Eric de Maré

H I MAYER (Letters September 5) says: "Tax the land". He's climbing the wrong tree. As an advocate of Douglas Social Credit I say: "Down with all taxes".

What we all need is more purchasing power (tickets) to buy what has, or so readily could be, produced with even less human effort. Taxes merely reduce purchasing power.

Most taxes go to servicing the phoney debts created by the banks, who, like the Marxists, rely on the absolute Labour Theory of Value. They run a con trick so monstrous that it could lead to the end of life on this planet.

Eric de Maré
Cirencester
Glos

Turning the tables

From Keith Hayes, RIBA economic research officer

IN the August 22-29 edition you printed a summary of the

RIBA's 1986 Employment Survey in which women architects numbered 10 per cent to less than 10 per cent.

In fact, the table that figure was taken from shows the proportion of all employed architects who were women. The proportion of women architects who were employed in 1986 fell to 10 per cent from 2 per cent in 1985.

Keith Hayes
London W1

Cambridge planning

From David Taylor, assistant chief planning officer, Cambridge City Council

CAMBRIDGE locals may be bemused by their planning committee but not for reasons recently reported in *Scorpio*. As well as refusing application for a "seedy student arcade" in the town centre was also refused by the committee. The latter, however, was allowed on appeal.

David Taylor
Cambridge

The dilemma of aesthetics

From David Higdon, department of town & country planning, University of Newcastle-upon-Tyne

AS an architect working among planners, it always adds excitement to my life when the smouldering aesthetic control issue flames up from time to time (Comment August 22-29).

In the rehearsing of the familiar arguments, three points rarely get aired.

First: judging from our journals, architects are forever in two minds about the aesthetic aspects of development control. The architectural media has always been most vociferous in calls for Joe Public to be restrained from defacing cottage estate homes bought from the council or for the protection of other design "set pieces". By and large it would seem we think aesthetic control too lax. On the other hand, we deeply resent architects being subject to such control.

Hardly a logical position. Is it because we feel that Ribers should qualify for special exemption? We are still too close to the shadow of the property boom and Ronan Point hope to hope for that kind of implicit trust in the professional to return.

Richard MacCormac was more consistent when he declared that he would put up with "Mickey Mouse and all kinds of crap" for the sake of one or two outstanding pieces of architecture.

You and I might respect such a purist radical argument for abolishing all aesthetic control, but it is even more unlikely to get general public acceptance.

Secondly: where does the aesthetic bit stop? Our training holds that design should go through a building like the letters in Blackpool rock. So we have always rubbished the view that it is simply the wrapper around the outside. But many

architects are moving towards this position when they say "just let the planner decide the use, the floorspace, the access and car parking and leave the rest to me". If the proposition is for an out of town shopping centre in the green belt — say at the M11/M25 Theydon Garnon intersection — this is aesthetically outrageous right down into the ground. Earthshelter Shopping City, quarry style, would be especially offensive.

Thirdly: the democratic implications. Basically we professionals object to laymen blundering about in architectural aesthetics. Both Luder and Manser ridiculed "acneyed Diplomates in Geography" as planning assistants and "local greengrocers" on the planning committee questioning Riberman's aesthetic judgment.

Would we prefer to deal with fellow professionals? Apparently not: Melvyn Dunbar is still hated by the profession in general as the architect of the Essex Design Guide.

But there is a current experiment with panels of local architects involved in aesthetic control in a number of districts, instigated by the Development Control Forum. No press reports of these have yet appeared. Aesthetic control is exercised

in Northern Ireland by the DoE directly — government by technocrat, no lay planning committees get in the way. Who would advocate the wider adoption of this administrative style in the UK?

Your leading article suggested exhibitions of development proposals for public comment. This was just what Geddes did with the floors below the camera obscura in the Outlook Tower in Edinburgh at the turn of the century — a Sunday afternoon jaunt for all the family. It is an appealingly straightforward piece of community architecture, macro style.

I think it natural that this round of discussions about the aesthetic tentacles of planning control should make the connection with community architecture.

But how does widening design participation necessarily bring about a climate where more stimulating original designs get through?

I am prepared to bet that, given half the chance, the French Lieutenant's Woman would try to stymie that excellent competition-winning Lyme Regis Lifeboat Station.

David Higdon
Newcastle-upon-Tyne
See Opinion overleaf—Ed.

The mysteries of planning

From George Cruickshank

THE comment by Ian Latham (August 22-29) on the refusal of planning permission for a timber-framed house on a steeply sloping site near Ironbridge, because of the allegedly "alien" (though not bad) design, afforded me the whimsy of wryly speculating on the chances for the iron bridge itself had it been subjected to similarly arbitrary aesthetic controls at the time of its construction.

Would a then contemporary planning system have ordained "a more traditional approach", and refused permission? On the same page, *Infill* reviews the 10th Report of the Royal Fine Art Commission for Scotland, which hits out at the poor quality of recent architecture and urban design.

Could it be that there is a correlation here between the lowest common denominator in design of which the commission complains, and the limp conformity which is engendered by the planning system and the lack of aesthetic accountability on the part of decision makers?

George Cruickshank
Aberdeen

Expensive entertainment

From Graham Wenman

BILL Ord makes a good point (August 22).

The problem is, as usual, human preference at public level, and this usually tends towards the "fun" side of life, especially if governmental level pushes "serious commitments".

For example, who can one hire for £1,000 these days?

1) An architect or teacher for a month.

2) A British PM (or oil-rig labourer) for a week.

3) A "Terry Wogan" for a day.

4) A top footballer for an hour.

So, to sell our services, pending a change in demand, we should either make architecture more entertaining (as per John Outram?) or at least be prepared to welcome recreational commissions.

Graham Wenman
Stroud
Glos

Sharing the honours

From John Ritchie, Merseyside Development Corporation

WHILE welcoming your brief note on the award of the European Gold Medal for the preservation of historic monuments to the development corporation (August 22-29) I was concerned to see that credit was given solely to Franklin Stafford Partnership acting on behalf of the Albert Dock Company.

This information was not provided by the development corporation and greatly misrepresents the situation in Liverpool. While the project will not cost £100 million and has been in operation for just 3½ years, it has been masterminded by the development corporation through a team led by Holford Associates.

Franklin Stafford Partnership, with the Albert Dock Company, have responsibility only for restoring about two-thirds of the buildings to standards set by Holford Associates and Curtins and they have so far designed and converted the shopping arcades.

Holford Associates themselves have specifically restored the Maritime Museum and Tate Gallery pavilions, and the conversion of the museum, Granada News Centre and the Tate Gallery has been done by Brock Carmichael Associates, Building Design Partnership and James Stirling and Michael Wilford respectively. All of the external works are by Donaldson Edward Partnership and Gifford & Partners.

However, it should be appreciated that the successful restoration of the buildings and its surroundings has depended entirely on a successful dock restoration scheme undertaken by Ward Ashcroft & Parkman, consulting engineers.

You will see, therefore, that many organisations and consultants have participated in this mammoth restoration project and the development corporation is keen to ensure that credit is fully given when the award ceremony takes place on October 9.

John Ritchie
Liverpool

Letters

Letters should be typed double-spaced on one side of the sheet and sent to: The Editor, *Building Design*, 30 Calderwood Street, London SE18 6QH. We reserve the right to cut or amend correspondence.

Technology and training

From John Le Good, senior lecturer in structures, Portsmouth Polytechnic

RON Macdonald, in "Teaching technology" (June 27) is incorrect in saying "technology" teaching can never be separated from the design process. Architecture has its particular emphases within the design process, creating really useful "whole buildings and spaces" elegantly, in specific circumstances.

A building can only be created successfully by a three-dimensional model of how it will perform under normal and extreme conditions for a wide variety of "causes". These "causes" demand recognition, understanding and choice of the best resolution (analysis/synthesis) in balanced measure. Scientific method cannot be dismissed for the student.

Patrick Hodgkinson (July 4) recognises that a balanced synthesis is vital to develop an "intuitive feel". Intuition can only be gained through observation, analysis and experience — how can you begin to exploit a new circumstance or material (a change in oil price or tensile fabric for example) without successfully analysing the "whole building model"?

"Architectural technology" for mainstream, smallish buildings can be taught by broad-minded up-to-date and informed individuals whatever their backgrounds.

It's a slur that a minority of staff who are science-based specialists are not fully accepted by colleagues because they are not architects, whereas students often welcome their perceptive and creative comment. I accept that there is a longer learning curve for non-architect staff, which can only be overcome with patience and time. But that would be radically improved by fully integrated, multi-disciplinary education for all involved in building design and elimination of firm professional institution boundaries.

Architectural technology has many variables and even more combinations which are difficult for students to assimilate without guidance in limited-goal design projects. Fashionable drawn architecture, so often enthused over by tutors, is invariably at some technical research frontier with many designs virtually insoluble in a brief student tutorial. Hence the ensuing mismatch between artistic concept and buildable detail necessary for a client, leading to the often seen "technical howlers" — particularly

structural ones — on beautiful student drawings.

With new creative problems, one can only refer to "principles", lateral thinking and experience to find a strategic solution. Closer investigation of all the technical interactions and numerical assessment of main variables is then needed to compare one resolution against another, in addition, perhaps, to physical testing.

Integrated, explicit development of concept to details, as mentioned by Hodgkinson, is vital in this process. For larger or innovative buildings the student is in a quandary because of unfamiliar scales, unless he has learnt to think patiently through the problems created.

There is a need to develop new techniques for clearly demonstrating principles, to counteract the prevalent over-emphasis on "finished" drawn project work. Axonometrics take time and are rarely adequate to demonstrate a complete system, eg ventilation ducting or structure.

Research is needed to define the limits of confidence for architectural technology. How many practitioners now wish to have the same structural ability as the late Walter Segal? I would be pleased to hear of any active architect involved in structural calculations. Is this facility still needed for small works here or overseas?

Now structures is about understanding: What and where are the loads generated by functions, fabric and climate. What materials might provide adequate stiffness, strength and durability? In what positions should materials be deployed to ensure an adequate whole building system in equilibrium, also considering buildability, economics and delight?

Calculations are only required to explore and check if a system and its components are adequate, then make comparisons between alternatives. Thus simple calculations are still valid in an architectural teaching scheme to demonstrate the relative importance and scale of the main variables prior to understanding and using safe load tables for simple cases.

Confidence in calculation in this country is now surely the province of the large band of structural engineers, but it is essential in practice to work hand-in-glove with them from day one to share creative ideas and decisions.

John Le Good
Portsmouth

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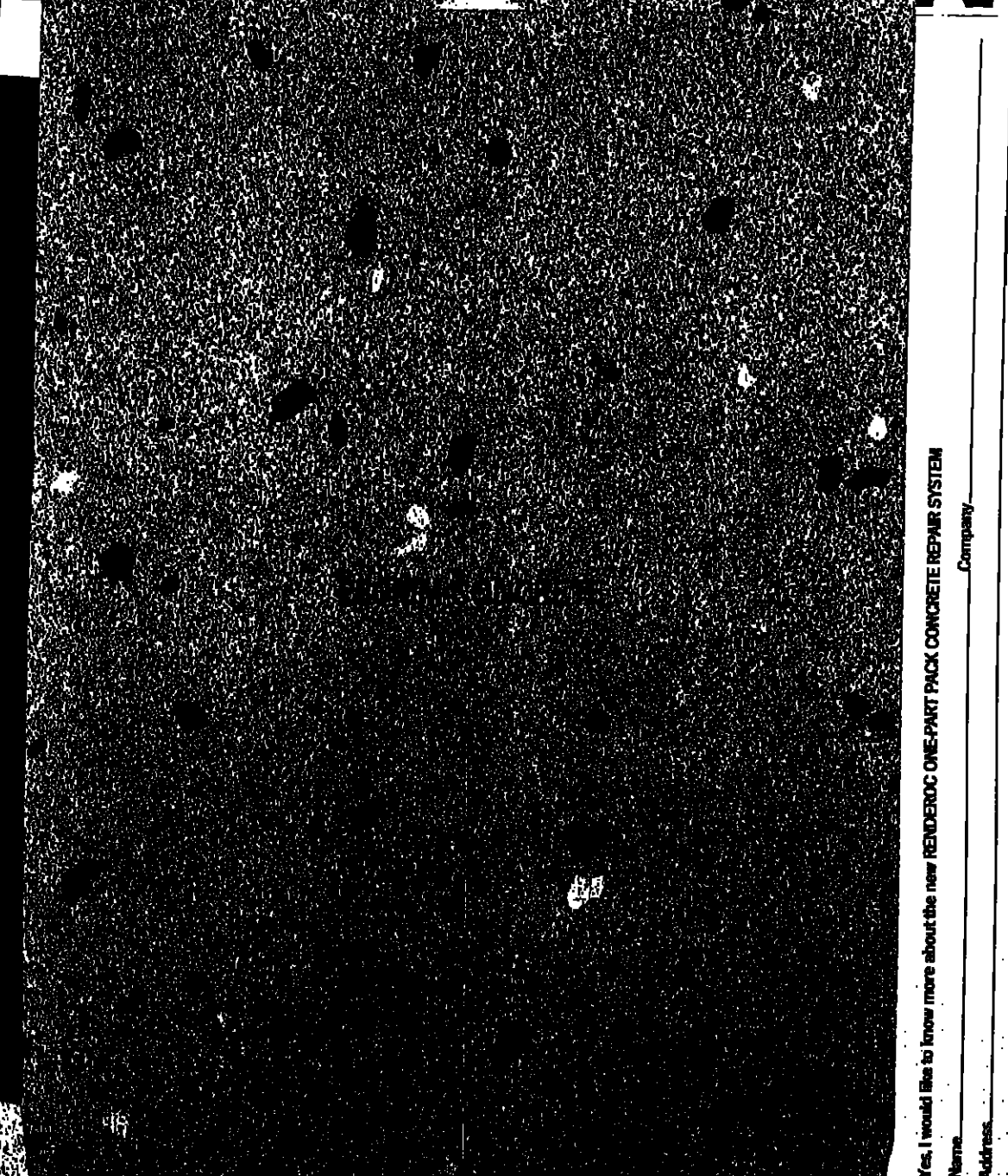
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A planning proposal

Architect/planner Colin Bloch argues for positive attitudes on aesthetic control.

TOWN planning in Britain remains on the threshold of a dilemma concerning urban design and the management of aesthetic control within the framework of planning law and procedures.

Central to the dilemma is the question of who, or which, of the competing professions of architecture and planning, is best equipped to assume responsibility for urban design. As a function of government, it is administered by local authorities, but the scope for discretion is so large as to result in a wide spectrum of differences in application. In Bristol, for example, the planning department enjoys the luxury of an urban design section staffed largely by architects, and can afford to give attention and to conduct detailed aesthetic negotiations over some 10 to 15 per cent of all applications. Other authorities rely on conservation advisory panels, usually supplied as a free monthly service by the RIBA, while there is at least one authority which has no in-house architects and refuses to accept the free RIBA panel. Therefore no matter what the spirit or intention of statutory provisions for aesthetic control, there is enormous disparity in its application.

It would be a cosy and comforting assumption to claim that aesthetic control is in the competent charge of qualified planners. Two quick tugs at the knot rapidly unravel the myth: first, not all planning is undertaken by qualified planners and secondly, there can be no assumption that qualified planners have sufficient or any training in design.

The first statement is difficult to substantiate statistically, yet personal experience suggests it to be true: but the second, on the urban design training and aesthetic awareness of planners, has been substantiated. The Royal Town Planning Institute syllabus is not in fact a syllabus but is a set of guidelines which promotes flexibility, and in which urban design training is not compulsory: the result of this is that the average post-graduate student will receive 18½ hours of direct teaching, and the average undergraduate 35½ hours throughout their recognised courses.

The competitive and well-known debate between architects and planners continues and it is necessary here only to summarise the opposing views. Architects feel that planners are ill-trained to impose aesthetic control, and that they often overstep the statutory mark to meddle in the detail of architectural design. Planners feel that they have a statutory and social responsibility to protect the public from architectural whim and excess, and the developer's greed. Little cheer is added by the exemption from planning controls enjoyed by architects working for the crown agencies, nor by the apparent inconsistency with which major appeal decisions are made and exempt areas designed.



The resolution of this debate is crucial to the way in which we will build, repair and incrementally replace our cities. There are no third parties to the debate, nor are there likely to be until urban and landscape design become established as professions. Little has been written or spoken about assessing "landscaping" in planning applications. A minuscule proportion of applications are prepared by landscape architects and even fewer are properly assessed. Bearing in mind the potentially overwhelming impact of good — and particularly bad — landscape schemes, it is difficult to understand the reluctance of the

Landscape Institute to press for greater involvement of its members in the statutory planning process.

Two further factors should also be considered: the growth of the planning profession and its changing composition.

The planning profession, as represented by the RTPI, has grown by 240 per cent in two decades, whereas architects during the same period have increased by only 36 per cent. Even more surprising than the mere numerical growth of the planning profession is the reduction within it of architectural representation. Whereas in 1962 some 41 per cent of planners were architects, by 1983 this had reduced to 10 per cent. The downward spiral will continue: of the youngest generation of chartered town planners elected since 1980, only 3 per cent are architects. The most optimistic forecast based on current trends is that the planning profession will enter the millennium with fewer than 5 per cent of its members as architects. The irony is that most of those involved in establishing the Town Planning Institute in 1914 were architects.

For a profession which claims urban design as being within its ambit, town planners are today receiving surprisingly little training. In at least one leading university a student from a

social science background can take a post-graduate course which includes thirty hours of design lectures or seminars, and graduate with a masters degree in urban design which is recognised by the RTPI, and by the RIBA for its Urban Design Diploma.

Where then does the solution lie if the design aspects of town planning are to be strengthened? Central government appears not to want to take any initiative as evidenced by the lack of even preliminary results from the "Time for Design" experiment, and the failure of the 1983 draft circular, *Good design and development control* to be ratified. The solution must lie, therefore, between the professions and the education systems which they influence, and the initiative would best come from the planners.

More architects must be attracted to planning to redress the accelerating imbalance. The joint initiative at Sheffield, Liverpool and elsewhere to develop architect/planner courses is commendable but, producing only a dozen or so dual graduates each year, will have no impact. It is acknowledged that funding and tertiary education policy is central to the problem, but other solutions exist. A review of public sector career structures could make the dual qualification sufficiently

attractive (as for medical specialists) to encourage self-funding and sponsorship; this will only have a small and slow impact.

If dual qualification is not to be wholly effective, then attention must be turned towards intensifying the design training of planners.

Change must be sought in the RTPI guidelines for recognised schools, so that design becomes a major and compulsory component of recognised courses, to such an extent that undergraduate courses would have to be extended by at least one year, and the relevance of post-graduate courses would be questioned. An extension of this idea is that the RTPI could acknowledge that the scope and task of planning has expanded, as have the interests of its members, and that in order to sustain credibility for such numbers and to encourage specific excellence rather than general competence, specialist subdivisions could be established. The RICS and the Landscape Institute have nine and three subdivisions respectively, and the RTPI should consider at least three: development control, urban design, strategic planning and research. Rather than being unduly preoccupied with the petty political dilemma of which profession is responsible for aesthetic management, and the ensuing rhetoric, a combined forward vision of beauty, cohesion and delight in our cities should be pursued by all parties claiming to be interested.

Colin Bloch is an architect/planner partner in the Bristol office of R1 Johnson & Partners.

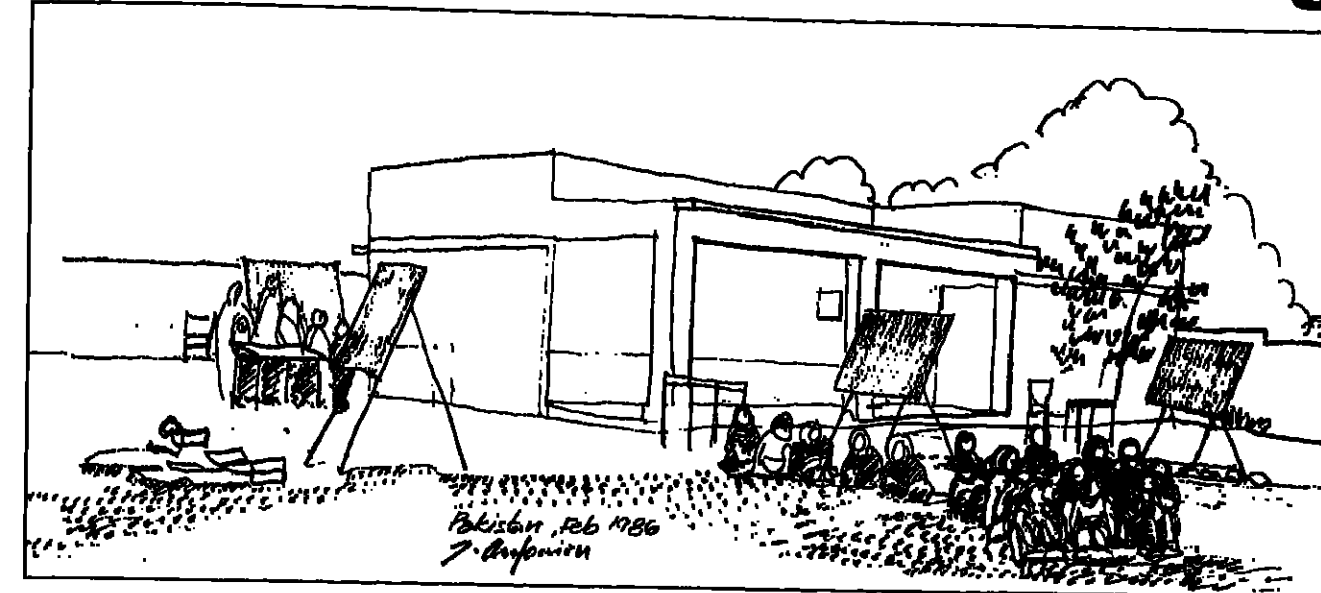


Jim Antoniou

loans for such gross mistakes, probably throughout their adult life.

The dilemma that many developing countries have to face in their construction industries is that while traditional builders are ignorant of modern techniques, many modern architects are largely ill-informed of traditional methods. In edu-

Lessons from school-building



IN one internationally funded school building project in Sudan recently, where the traditional building material is mud, a German prefabricated panel system was manufactured in Portugal and brought in through Kenya.

It was used to erect primary schools in villages so remote and inaccessible that in some instances, only the foreign contractor who assembled them could actually vouch for their existence at the end of the construction period.

The irony is that the children for whom these schools are intended are the ones who are expected to repay the foreign

national building programmes, foreign financing implies centralised management at implementation level. Regardless of regional differences, a standard single school model may be used, often based on mass production and prefabrication.

As a result of unrealistic high construction standards, which discourage traditional building techniques, many developing countries are forced to rely on foreign contractors and professionals in some cases diverting more than 50 per cent of construction costs into imported building materials, thus inflating prices.

Contractors, therefore, need to pay more for often scarce

materials. The import of materials results in loss of foreign currency, long delays in delivery due to scarcity and distance of building sites, and the need to acquire special building skills, not readily available locally.

There are, therefore, many advantages in adapting local materials for school construction. There is no doubt that a reduction in costly imported materials can make construction more affordable for low-income communities, while increasing income earning opportunities (some 10 per cent of total employment in many developing countries is usually derived from building activity). Moreover, utilising local labour

is less expensive and faster to build.

The drawback is an acute absence of local construction capability, particularly in isolated locations, and a chronic lack of government resources to adequately supervise scattered school sites. In one example recently visited in Pakistan's Baluchistan Province, construction of a school was entrusted to the local head teacher.

A reduction in quality of school provision and construction results in inadequate maintenance. Invariably, once buildings are handed over to the occupants, little attempt is made to inspect and maintain buildings. In many other parts of

techniques being developed which assist ordinary people in a community to take an active part in the design process.

Even where the local construction sector has potential for improved capability, experience shows that the importance of good management is often underestimated in many developing countries. Without good management skills from government, the local building industry is left to operate with only limited resources.

There is no doubt, therefore, that greater emphasis needs to be given to the use of local construction technology, together with a variety of organisational methods (particularly community and private or co-operative self-help arrangements). In turn, this implies simplified building codes, clarification of titles and even an establishment of co-operatives for purchasing materials in bulk.

The success of such strategies in giving support to the local construction sector rely on government commitment. Given the labour-intensive and self-help nature of this kind of construction work, very little financing, together with strong technical assistance, can produce a substantial impact.

Community architecture in England, with or without royal blessings, might well provide respectability and some work for under-employed chartered architects. But in the third world, local people knowing how to build cost-effectively with meagre resources are often the difference between having or not having a primary school in the village.

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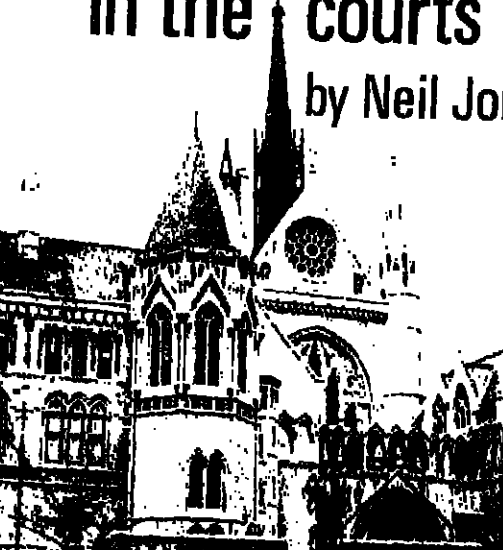


In the courts

by Neil Jones

In the courts

by Neil Jones



Design 5 v Keniston Housing Association Limited (Before His Honour Judge David Smith QC sitting as Official Referee—May 12, 1986)

Walker declined to issue a

...visitors, nor does legal principle

Unusual victory

Actions brought against local authorities by owner-occupiers of houses in respect of alleged failures by the local authority in the exercise of its duties under the Building Regulations have, in recent years, moved from a trickle to a flood.

The judge considered the various codes of practice applicable in 1968 and 1969 in relation to foundations in various kinds of organic soils. The floor slab in question took only a fairly small proportion of the weight of the building. The footings bore between 85-90 per cent of the

The significant feature in this case (as in many others) was the effect of the prolonged drought of 1976. It was accepted that the long drought which took place in 1975 and 1976 was not foreseeable back in 1969. It was further accepted that this drought had an effect upon the subsidence of the floor slab.

The judge held that there was some degree of compressibility in the organic element of the soil in any event but that it was so low that without the drought it would not have caused subsidence. The subsidence was caused by the compression both of the organic and non-organic elements brought about by the exceptional and unforeseeable drought and accompanying heat in 1976.

The plaintiff argued that time only began to run from the date when damage was suffered and that damage was first suffered when damage to a flue was discovered and that it was only from then on that the damage resulted in danger to health or safety. As the six years in connection with actions under

the Building Regulations only starts to run once the property has become a health hazard, the plaintiff contended that her action could not be statute-barred.

The judge, however, held that there was a sufficient degree of settlement of the floor slab before April 1978 for the danger of cracking of the flue to be imminent. He held, therefore, that time began to run before April 1978 and that even if he were wrong in his finding that the council had not been negligent, the claim against them would in any event be statute-barred.

Neil Jones is a solicitor with Neil Jones & Co of Birmingham, specialising in construction law.

Planning appeals

Confusion cleared up

"Nevertheless, although this confusion applies also to comparative heights, I am satisfied, from a detailed study of the floor plans, that I understand the true intentions of the company to accommodate 56 residential

... and a pair of pearly gates...

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Brian Bagnall

units on the site.

"It seems to me that the roof line would only be acceptable if it is lower than that of the adjacent houses in St Peters Close, and because of the confusion regarding drawings, I will make a condition to that effect."

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Tarnished visions

This may somewhat tarnish Lord Brocket's visions of a "gold course", but no doubt after it has been constructed.

there will be an application to remove the condition, if, indeed, the condition is not even now too vague to be enforced.
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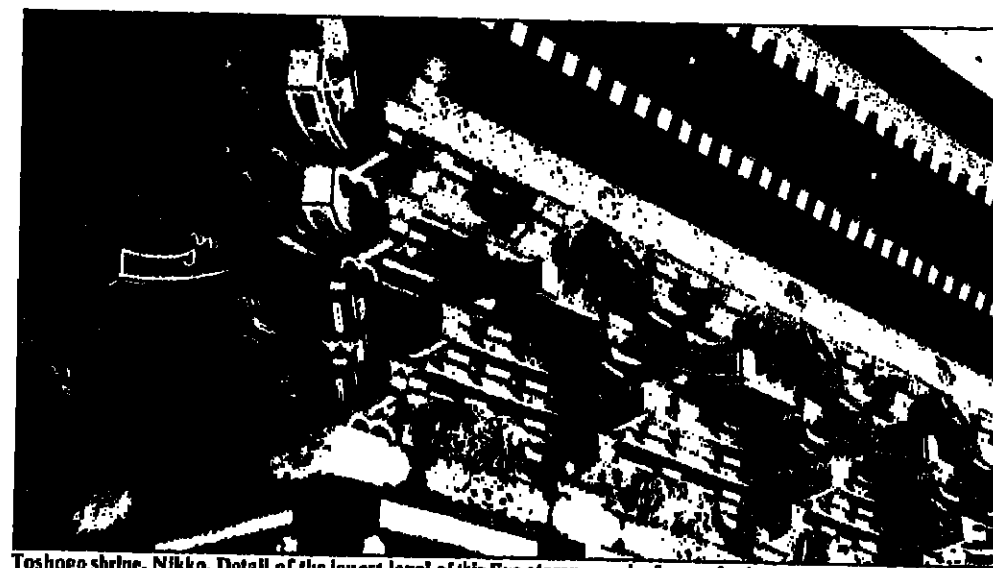
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Japan

ZEN AND THE ART OF BUILDING MAINTENANCE



Toshogo shrine, Nikko. Detail of the lowest level of this five-storey pagoda, famous for its extravagant decoration.

The search for perfection overrides deadlines and budgets in the restoration of Japanese shrines and temples. Tim Buxbaum reports.

ANY dilettante on a Grand Tour set in the frenetic 1980s would be hard pushed to explain away the absence of Japan from his itinerary.

Cheek by jowl, zen and kabuki, shrines and baseball, rice paddies and pachinko, this land of melodramatic contrasts has produced in recent years some bizarre new buildings which reflect all too well the angst and energy of life pulsating in this intriguing country.

But it would be quite wrong to think primarily of modern Japan as no more than highly mannered architectural structures scattered through the

dense and sometimes labyrinthine urban sprawl which follows, in an almost unbroken conglomeration, the main Shinkansen lines all the way from Tokyo to Hakata. To one side lies the ocean; to the other spread great populous conurbations like Nagoya and the Nara Plain: towns are squeezed into shape by the rising hills which form the great bulk of the land mass, offering terraces for orange groves and tea plantations before rearing up to snowcapped mountains, volcanic peaks, and comparatively remote valleys.

A pronounced generation gap and significant cultural watershed are still very evidently the legacy of the war stamped onto contemporary life on this part of the Californian-influenced Pacific Rim. On the face of it, the packaged consumer lifestyle of Japan is thoroughly Westernised — but look carefully; this is only a mask. In any case, the lifestyle is confusing. Who knows whether one's hosts will live floor-based *tatami*-style and sleep on *futon*, or sleep in a bed and dine in high chairs round the latest "English-style" dining table from the department store? Here at least is one conundrum not solved by age; young people do both. And what does one make of the ubiquitous soft armchair with sawn-off legs which can be used "traditional style"?

In recent years, like the nation as a whole, design-conscious architects have tended to look forward to their conception of the future rather than back for inspiration to a past which over the past few decades has somehow seemed culturally remote. Many established Japanese architects refer to European influences in their work. It appears that schools of architecture teach little about a heritage rich in sophisticated timber shrines and temples, and palaces with screens and *shoji* paper windows. The emphasis instead is very much on concrete technology, and to some extent this is understandable when one considers the natural disasters of earthquake, flood, fire and hurricane which have occurred all too frequently in Japan's history. In fact many formerly historic timber castles have been rebuilt since 1945 in concrete in a characteristically unsentimental and pragmatic — if rather curious — decision to "restore" them.

The architectural possibilities of "heaviness" and "permanence" offered by concrete construction are something which appear rather foreign to the traditional vocabulary of Japanese building. At Ise Shrine, for example, it is the "idea" rather than the "fabric" which expresses permanence. This enormous and world-famous Shinto shrine has been regularly rebuilt every twenty years for centuries, and the 60th such rebuilding took place in 1973. Each time the old shrine remains in place until the new one is completed on an adjacent site (comparison ensures perfection), then the old shrine is demolished, leaving behind a suitable memorial. The quality of materials and craftsmanship is exquisite — a hallmark of many buildings in this country

— and power tools and modern techniques are used where appropriate.

Recently, however, concern has been expressed about the extravagance of such rebuilding. Hundreds of large hardwood trees are sacrificed, representing a considerable financial burden and incurring increasing condemnation from conservationists who regard the desire for "ritual purity" at Ise as a prime example of the rapacious Japanese appetite for hardwoods which are often imported rather than home-grown.

Today, few other structures are rebuilt in the same way as Ise.



Woodblock print of traditional gasho (bamboo) house. Note the pot heating over the hearth, set in the floor (and filling the house with smoke).



Dalutsu-den, the main temple in the largest timber building in the world.



Toshogo-Ji temple, Nikko. Detail of base of the pagoda.

Growing emphasis is being placed on the ongoing care and conservation of buildings which the Japanese are beginning to realise with pride is a spectacular heritage which ranges from the breathtaking simplicity of the elegance of Katsura Imperial Villa to the stunning polychromatic exuberance of the shrines at Nikko. *Bunka-cho* (the Agency for Cultural Affairs) is the Tokyo-based organisation which co-ordinates much of the conservation work to historic buildings, and this year it is involved in about 100 schemes of restoration and repair which range from the *Kannon-do* of Shofukuji in Kitakata to oper-

ations at Shizuoka's Kengonji-ji. Independent bodies and Buddhist authorities are also active in such work which attracts grant aid from city and prefecture funds.

Some of the most spectacular conservation work is carried out at Buddhist temples and Shinto shrines. These occur throughout Japan, scattered liberally throughout historic centres like Kyoto, but considerably less easy to find in settlements which were flattened in the war and subsequently rebuilt, a shadow of their former selves. The smallest are tiny buildings, perhaps hidden in the woods; the biggest, great developments — headquarters of their respective sects — endowed with treasure houses and extensive gardens of refinement and delight.

The best known include the ascetic raked-gravel enclosure at Ryoanji, the gaudy processional route of hundreds of vermilion *torii* leading into the trees at Fushimi-Inari, and the Great Buddha Hall of Todaiji Temple in the deer park at Nara. This today is the largest wooden structure on earth, recently repaired, yet it is only two thirds of the size of the temple which stood here prior to the rebuilding of 1709. It shelters a Buddha figure whose outstretched hand can seat a man. About the year 800 twin seven-storey pagodas were built nearby, each apparently 100m high.

Larger temples and shrines (the distinction is sometimes blurred) may be laid out to include an entry gate of twin pavilions sheltering grotesque demons, a main hall resplendent with images of Buddha and suitable offerings, a squat bellfry, possibly a treasure house, a pagoda, quarters for the monks, and a host of smaller structures for burning incense and taking a mouthful of the water of ritual purification (these days the communal ladle may be housed in a sterilising unit).

There will also be a cascade of souvenir shops, for the main visitors will be massed regimented parties of schoolchildren. There are also foreign tourists and ordinary Japanese who visit to pay their respects, pull the ropes to rattle the gongs to "wake the gods", clap their hands twice, make an offering and say a brief prayer. Not least among the visitors are those businessmen who wish to appease patron deities of agriculture and commerce. The Buddhist monks seem well in tune with the modern world, frequently holding "car blessing" ceremonies, and even, in June this year in Tokyo, holding a ceremony to bless 200,000 used brassieres.

The richest collection of historic buildings and the undisputed cultural capital of Japan is Kyoto. It was indeed the Imperial capital for nearly 1,000 years. Probably the most famous building in Kyoto is the elegant Golden Pavilion at the Temple of Kinkaku-ji. Built originally in 1397 (in the Kitayama period of the Muromachi era), it underwent only minor changes until 1950, an opulent and beautiful three-storey garden pavilion beside a reflect-



Shirakawago gasho No Sato Folk Village Museum, detail of internal roof construction.

ing lake, surrounded by moss and wispy trees, once part of Yoshimitsu's villa complex. "The Chamber of Dharmas Waters" is on the ground floor; above it is "The Tower of the Sound of Waves", and on the top floor is "The Cupola of the Ultimate". In 1950, a made monk burnt the structure to the ground in a fit of religious zeal, and the present building dates from 1955: it claims to be a near perfect recreation of the original. At present it doesn't glitter, for there is no gold leaf. In fact it is very difficult to see the structure at all due to dense scaffolding and heavy screening to preserve building operations

from the public gaze. The long and laborious task of relacquering the timbers is under way and in due course regilding will begin. The conservation team are adamant that it is an honour to be associated with such prestigious works which carry no restriction on time or budget. The only stipulation is that the result should be perfect.

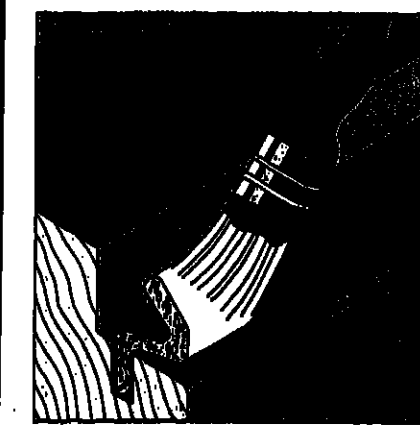
It is impossible to say whether such information is true, or whether it is the Japanese explanation of the truth to a foreigner; these are not always the same. But a few kilometres away at the temple of Kiyomizudera the figures are plain

continued page 20

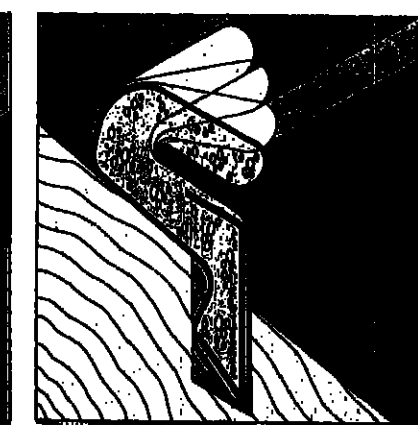


Fushimi-Inari Taisha shrine. The largest of the Inari shrines in Japan, with more than one thousand torii (gateways).

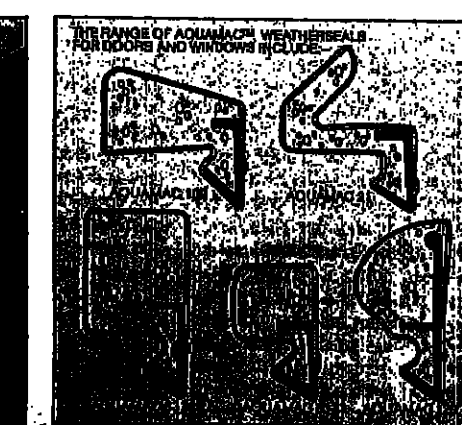
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Japan



Kiyomizudera, view of the scaffolded pagoda and the main hall or "honden" on the right.

Zen and the art of building maintenance

from page 19

enough. Repairs to the three-storey pagoda are costed at 300 million Yen and the timetable is two years.

The Kiyomizudera Temple complex lies by misty hills to the south east of central Kyoto and is best known for its main hall or *Honden*, which is built out from the side of a hill on a great forest of timber columns and houses the eleven-faced "thousand-armed" *Kanzeon Bosatsu* or *Bodhisattva of Mercy* which has a history of 1,200 years. Various other structures lie nearby. The three-storey Pagoda itself is the largest of its kind in Japan and is contemporary with Kiyomizudera's *Sammon Gate*: both are from the early Takugawa period and were completed in the early 1630s. It is claimed that these are the first major repairs since then and funds have been swelled by selling "personally initiated" copies of Buddhist Sutras, and by the usual practice of encouraging donations for dedicatory rooftiles.

The scaffold is a chunky steel frame on concrete foundations. All lifts are fully boarded and access between lifts is by means of timber ramps which seem hazardous when muddy, but which prove no problem for the workmen in their split-toed boots and strange "plus-four" type overalls. Opaque wired-plastic screens surround the scaffold. Nearby is the site hut (haven of green tea) where engineers rather than architects liaise with the adjacent carpenter shop where traditional saws (*tsukogiri*) and adzes (*chona*) are used in conjunction with power tools. Machinery is used wherever it is expedient, but rarely, for example, where an adze-cut surface would be more appropriate.

On the ground, ready for re-erection, stands the spire of the pagoda or *stupa*, a 1,200kg cast iron and bronze assemblage of rings or *kuiki*. Timber repairs are usually neglected; accumulations of leaves, water penetration through roofs of bark or tile, and attack by worm, rot, and mason bees. Unsawn timber has been frequently used for cantilevered rafters and this is prone to sapwood decay; at higher levels often only the visible face of any timber is dressed. Most of the

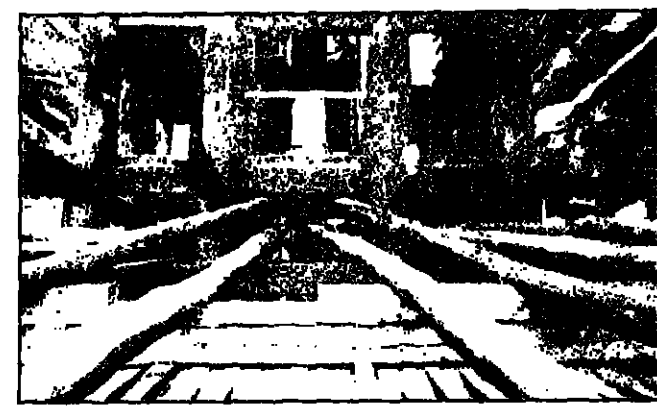
timber at Kiyomizudera is Japanese Hinoki (*Chamaecyparis obtusa*), but denser woods are used for support brackets.

Unswayed pagoda roofs are deemed to be "male"; down-swept roofs are "female". The silver-grey tiles from the roofs at Kiyomizudera pagoda have been stripped, to be relaid with salvaged and new hand-made tiles when structural works are complete. Most timber connections are by dowel or traditionally proven joints like the sickle (*kama*) or *jyu-hozo*. Cast-iron cramps are also used and copper washers finished in gold are sometimes incorporated between the wood and the iron. The only fixings are bamboo "nails" which are particularly good because they swell after insertion, and these are used to hold together the soffit *ourago*, which is built up of laminated timbers. The main central post of the pagoda, the *shin-hashira*, is formed of two long and massive timbers locked together with metal bands. Sacred Buddhist relics are traditionally interred below the base of this post.

Originally, constructional timbers were often identified by a brush-painted *kamij* notation. Now, dismantled timbers and new timbers are marked throughout with small ply tags. As little new timber as possible has been used in the repairs at Kiyomizudera, and where there has been localised decay this has simply been cut out to allow a small piece of slightly oversized new (but well seasoned) timber to be fitted in its place, held by modern glues and cramps. Timber preservatives are commonly used. New timber is only toned down artificially where it is felt to be particularly visually jarring: thus a complete new soffit may be left to weather naturally, but a single new support bracket may be camouflaged. At lower levels of the pagoda teams of specialists are already at work repainting the complex with brightly coloured stencil patterns and applying gold leaf.

Timber is sized according to certain rules, and an awareness of certain building measures developed over the years is fundamental to an understanding of traditional Japanese architecture. The "standard-

ised" *tatami* mat measures 910mm x 1,820mm. House rooms are usually described in terms of so many *tatami*. An area of 1,820mm x 1,820mm is called a *tsubu*. Building land is often described in terms of so many *tsubu*. The length of 1,820mm is called a *ken*. One *ken* is equivalent to six *shaku*. The section sizes of constructional timbers in a building like



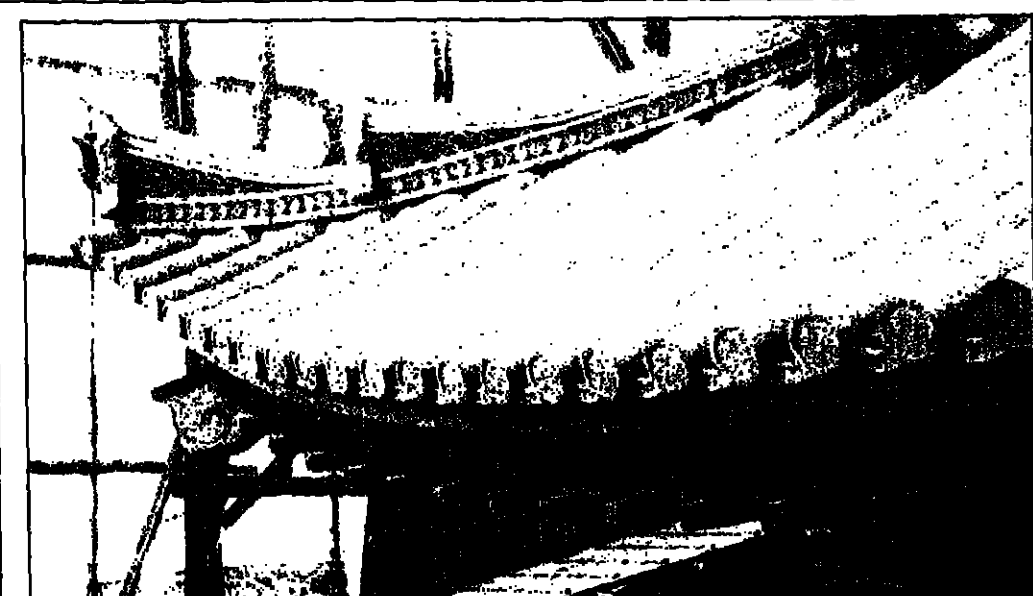
New and old timber in the pagoda roof at Kiyomizudera — the rafters are no more than cantilevered tree trunks.



Corner bracket of cantilevered arms and bearing blocks at Kiyomizudera.

Kiyomizudera, timber support (*kaki*) to one side of the main hall.

The main hall at Tomiyoji Temple complex in Kyoto is scaffolded in timber for restoration.



Restored roof tiles at Mampukoji; the soffit immediately below the tiles is left unpainted, to weather naturally, but new repairs in timber below are stained to match the original.

Kiyomizudera pagoda are measured in *sun*, a unit of about 30mm, but diagonal timbers are measured in *uranome*. An *uranome* is one *sun* multiplied by the square root of 2. An instrument like a mason's square is therefore indispensable on site.

The large hall or *Daiyuhoden* of Mampukoji Temple complex in Kyoto is also being repaired at present. It is the centre of the

Obaku sect of Zen Buddhism and there is a strong Chinese influence in the design of the buildings which date from 1668. Inside the *Daiyuhoden* are great Buddhist statues which will be cleaned and the stencil-cut patterns of their timber pilings will be recut. External walls are set within a framework of colossal columns of teak on "Chinese drum" stone bases (repairs will be carried out with timber imported from Taiwan). Infill panels to the ground floor walls are of rammed earth which, in repaired sections, is formed around a central timber trellis and a synthetic fabric called *asa*. Top-coat finish is of local white earth. This is protected from the worst of the rains by the long overhang of the upswept roof bedecked with heads of demons or *onigawara*, mouths open or closed according to gender. Stop ends to the roof tiles are frequently imprinted: at Mampukoji the symbols read *Mampukuzenji*. Imperial buildings often show the chrysanthemum flower motif, and one of the most common designs is a simple comma shaped *tomoe*.

Away from the banging gongs and chanting monks of Mampukoji another set of important repairs is taking place at the main hall of Tomiyoji Temple near Yokohama. Of particular interest here is the highly detailed model of the structure which has been prepared to help in the restoration of the building to its original form. It is well used on site. Once again the roof is supported by vast timber columns, and where these are decayed, sections are cut out with surgical skill, and replacement timber is introduced. Within a few years the hairline joint between the two will have vanished to view. Such skill

The main hall of Tomiyoji Temple is not part of a temple complex; it is set in a public park, one of several in Japan which display collections of old buildings. Purists opposed to the principle of moving buildings at all might view these Japanese developments in less harsh a light than others closer to home, for the timber buildings can frequently be dismantled and

transported in their constituent pieces, and a good proportion of the movement has been due to dam building. Sankai-en garden at Yokohama is a delight to visit because the buildings, up to 500 years old, are set in such delightful surroundings; they include not only structures from Tomiyoji, but also a number of *minka*, "houses of the people", a term which includes everything from the dwellings of the poorest farmers to homes of everyone not in the very highest social strata. A visit to Sankai-en is an experience in peace and tranquility: the gentle falling of cherry blossom, great colourful carp in limpid pools, the chirrup of cicadas and the song of the Japanese nightingale. The quietness is only shattered once a day by one of the nationally beloved loudspeaker systems which plays "Auld Lang Syne". In Japan this means "closing time".

Other open-air museums of note include Hida Minzoku-Mura at Takayama, Nihon Minka-en village at Kawasaki, the Meiji-Mura museum near Nagoya which specialises in buildings from Japan's Meiji period (1868-1912), and the Shirakawago Gassho no Sato in Gifu. The *minka* at the Shirakawago museum (and some similar structures in neighbouring mountain villages) are among the most interesting. The form of these *minka* is dominated by *kirizuma gassho-zukuri*, a high gabled roof "in the form of hands praying"; these miscanthus thatched slopes are steeply pitched against heavy winter snow loads, and the construction is of big logs or *sasu* which are lashed together with straw ropes or *neso*. The rafters have pointed ends which fit into holes in the wallplate.

Inside these houses, burnished with age and smelling richly of open fires, there lived until comparatively recently extended families which might number 30 people apiece, together with their tools and agricultural equipment. Re-thatching the houses was a mutual activity which bounded the community together; in the dark, high pitched attics, silk worms were cultivated.

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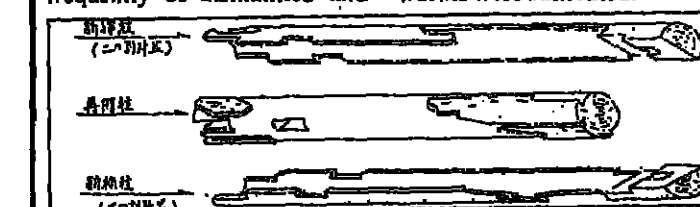
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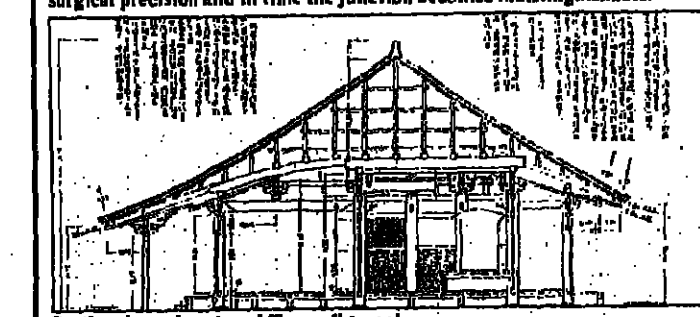
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Detail of the hand-made roof tiles at Tomiyoji.



Tomiyoji studies of repairs to main structural timbers. New pieces are fitted with surgical precision and in time the junction becomes indistinguishable.



Section through restored Tomiyoji temple.

PUTTING ON THE STYLE

In the first of an occasional series of articles on young practices, Fiona Gorman talks to the partners of Clarke/Renner Architects.

THE paucity of architectural work nowadays has promoted a new breed of hard-headed businessmen, with just one product to sell — good design.

Among these resilient and cost-conscious creators are the 18-month-old Clarke/Renner Architects. Gone are the days, says partner David Clarke, of professionals politely posturing and evading publicity. The future is in going out and promoting oneself.

All this from an embryonic practice with just one completed project behind them — a rent addition to a two-storey house for first-time buyers. But sitting in their light, attractive new offices off Ladbrooke Grove, the youthful practice epitomises the new approach.

Both Clarke and partner Karl Renner are products of the large commercial practice, with its advantages of a varied portfolio of projects and its disadvantages of personal anonymity bound up with corporate identity. They met in 1982 at Chapman Taylor, pledged to set up in business together and did so in March 1985 in a small studio in Clerkenwell.

The practice now numbers six — and is looking to take on two more immediately — and has just moved to the high-profile Royalty Studios designed by Campbell Zogolovitch Wilkinson & Gough with their developer arm, Charterhouse Estates. Roger Zogolovitch is something of an office hero for Clarke and Renner, for his inventive and distinctive architecture, and his ability to combine this with a strong business sense to great advantage.

The studios appealed not just for their location and as the product of the man, but also for their approach to architecture. The design is not extravagant, but is refined by details such as the circles inscribed throughout

the windows and the polished maple floor.

"The studios reflect our ideas of architecture," says Clarke, "not necessarily in detail, but in demonstrating that quality need not cost much. Good design at sensible prices is also what we aim to give."

Sounding like a high street supermarket manager on a busy day, Clarke is keen to point out that business nous does nothing to betray their professional ideals of skills. After all, if the product does not stand up to scrutiny, neither will the venture. If the practice has a corporate image, and the thought makes the corporate hackles rise, it is in the marriage of romanticism with sound business intuition. "But," adds Clarke, "there is nothing rose-tinted about our outlook. We're in business to make money and the product is good design."

This much has been learnt in the huge corporate training ground, but other values are cast off readily. Neither partner warmed to the constraints of conforming to the large practice image, with its hackneyed vocabulary. "The frustrations," says Renner, "did not come from the outside — the planners and public — but from the inside." Now, having tasted the freedom of their own concern, neither Clarke nor Renner could contemplate returning to large practice. And both are adamant that their own practice should provide as liberal a working environment as possible.

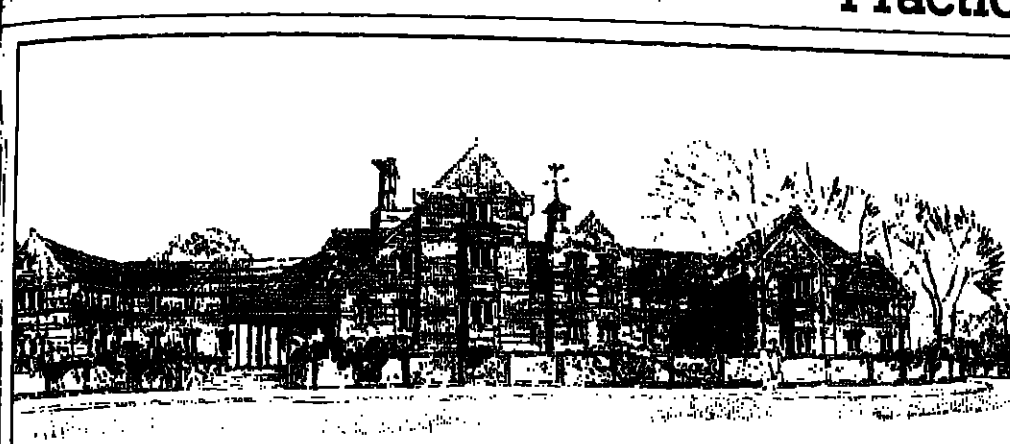
But having taken in the rules of commercial architecture, Renner and Clarke know what tactics to employ in the fray. "Commercial clients realise that good architecture pays," says Clarke. "It is essential to get planning permission, and it reflects in the rents agents can attract."

Right from the start the practice has been consciously putting its best foot forward,

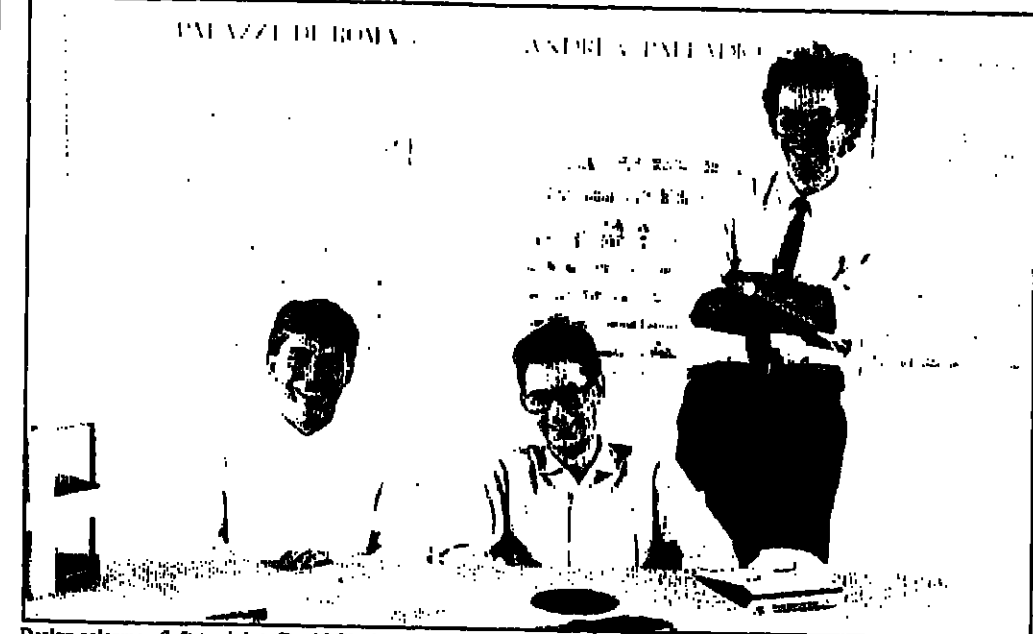
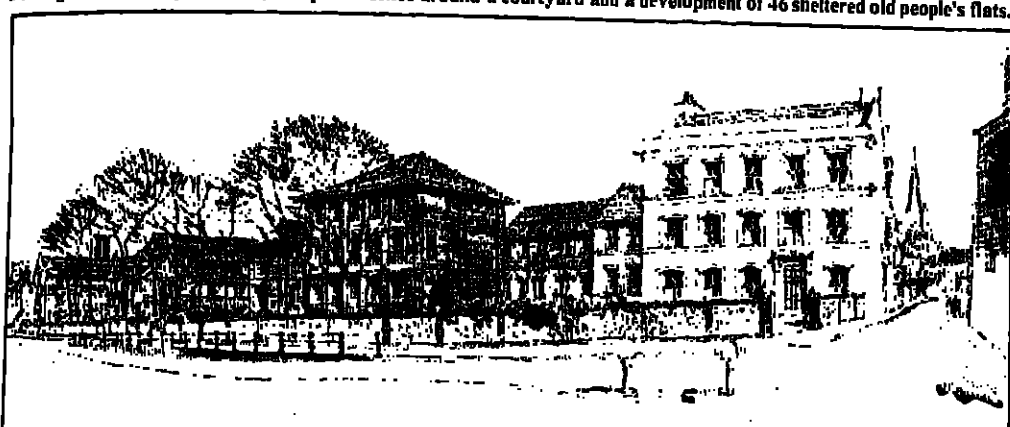
employing the services of a freelance graphics designer, Mark Posford, and now they have appointed a pr firm too. "In a way, it is more than we can afford now," says Clarke, "and yet it is something we have to afford now." And within the practice the same commitment to marketing shines through. "Karl is the real designer,"



Clarke/Renner Architects' design for a 2,048sq m speculative office development in Guildford; and below: design for 500 City, Wimpey Homes within the walled garden to Tadworth Court, Surrey. The £1.5 million scheme is waiting for planning consent.



Above and below: Elevation of Clarke/Renner's office and residential design for Arbutnot Properties and Galliford Homes in Dorking. The scheme provides 2,500sq m of office around a courtyard and a development of 46 sheltered old people's flats.



Design salesmen (left to right): David Clarke, Karl Renner, and Mike Phillips.

explains Clarke, "whereas I am much more of the promoter and entrepreneurial spirit." The image is not an after-thought, but a 50 per cent concern of the managing partnership.

Architect Mike Phillips believes this is one area where the RIBA lets its members down: "The RIBA is not pulling its weight. It should be teaching

architects how to promote themselves." And, says the practice, something should be done about the fee system.

Like most young practices more than 50 per cent of Clarke/Renner Architects' work is given over to speculative schemes, and those that bear fruit have to finance everything else on the office books. "But," says Clarke, "architects should be paid on an investment basis, not on construction costs — especially if you are invited to submit designs. Doctors and lawyers are paid as soon as they spend any time on you, not if they win your case, or make you better."

The architectural approach of the practice is essentially English vernacular (call the piece "Laid back and thinking of England", they said) and the partners like to think they promote all that was good in the architecture of Lutens and his peers. They aspire to rediscovering the qualities of light and interiors which seem to have been largely forgotten and demonstrating a new understanding of the townscape. This immersion in the best of British is conscious and occasionally borders on the eccentric: "Wherever we go out to see a new site together," says Clarke, "we try to go for afternoon tea somewhere."

But the practice's traditional bias represents an architectural vocabulary rather than dogma. "Architecture," says Renner, "is richer for being able to use forms and features from the past," and Clarke/Renner use them in interpretation rather than imitation. The result is designs which combine contextual with contemporary references to a high standard. Their speculative office scheme in Guildford, for example, unites a striking glazed atrium and bay windows framed in green aluminium with pitched roofs and brickwork.

Perhaps surprisingly, given their design predilections, the practice considers conservation

has been taken too far. "The extent of conservation is a real insult to contemporary British and European architecture," says Clarke. And the choice of imitative schemes as competition winners on sites such as the Grand Buildings in Trafalgar Square — where the potential far surpasses the result — is just rubbing salt into the wound.

It is not enough, say Clarke/Renner Architects, to take traditional forms and jiggle them around to form a new composite picture. Relationships have to be established with the environment and a carefully considered building produced. But the practice's office scheme for Dorking, which has just been given planning permission, was virtually criticised for just this. The planners thought the design good — perhaps too good — for the site. Clarke and his colleagues were not especially surprised: "Planning committees promote the mediocre," he says, "because they aim to provide the least offensive for the greatest number of people, rather than encouraging good design."

The planning procedure is too inflexible, says Clarke. The authorities designate certain building types in certain zones, regardless of demand or aesthetic relevance. "We want to compose our designs," says Renner, "and not fill in within the dotted lines. We want to provide something with a sense of place, not something insignificant."

This demand from planners for unobtrusive schemes which do not challenge their environment seems to support Clarke's prognosis of the profession's ills. Current design, he believes, is thwarted by a lack of confidence.

"Usually one has to live up to the reputations of one's predecessors. We are trying to live down the architects of the 60s and 70s and until we do there will be no confidence."

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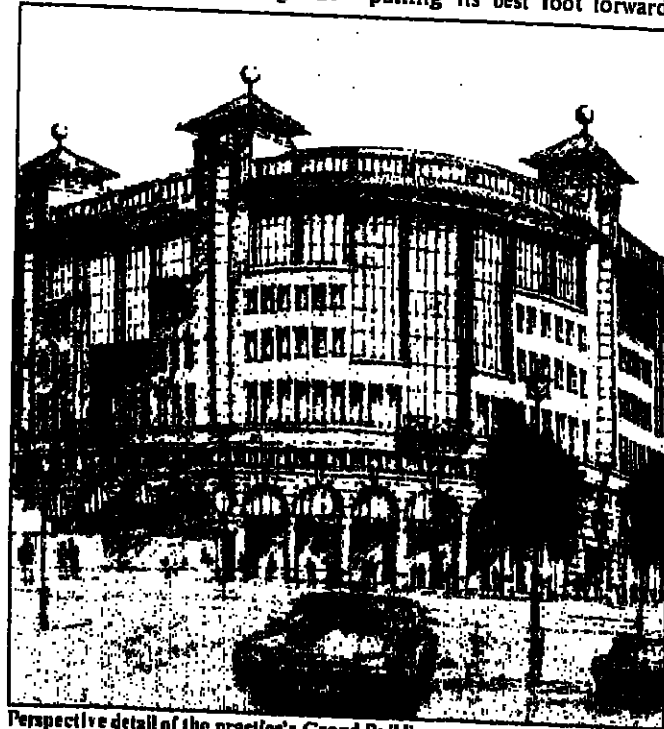
Mr. Bill Bruce, Deputy Chairman, Barratt Developments plc.

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Medallion Award



Perspective detail of the practice's Grand Buildings entry.

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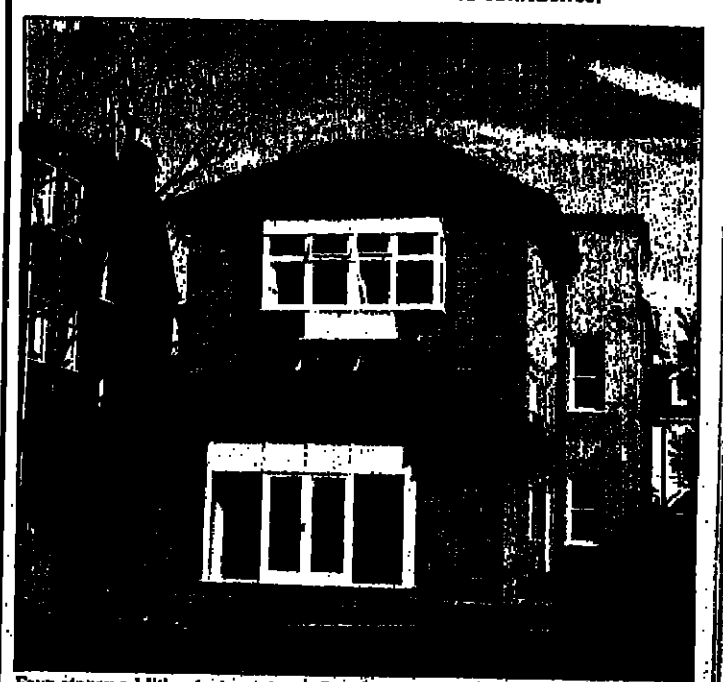
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Four-storey addition to two-storey London house.

Language

Language

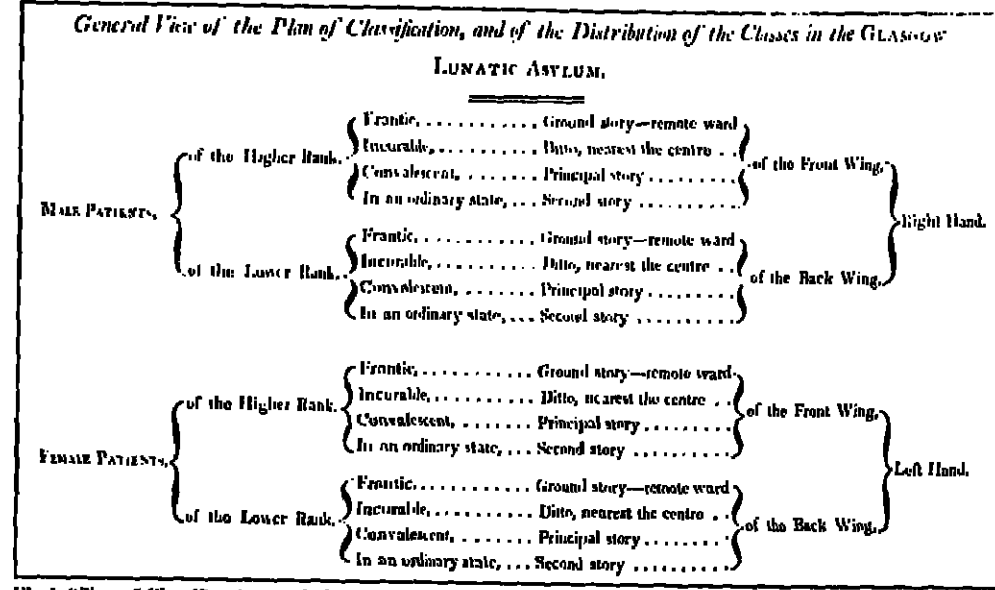


Fig 1: "Plan of Classification, and of the Distribution of the Classes in the Glasgow Lunatic Asylum".

TELL a reader of *BD* that in next week's issue there will be a major piece of architectural criticism, and what would they expect to find?

A critical text which took as its material either illustrations or verbal descriptions of the building, or both. The text itself would be seen as containing two components: descriptive passages, phrases and words, and critical or evaluative ones. But I want to argue that the difference is superficial — the so-called descriptive texts embed a perspective which makes their critique covert, while that of the evaluative, critical ones is overt.

Any architectural publication serves as a quarry for this kind of mixed text. *Building Design* is as good a source as any. In recent weeks a host of headlines has described new commercial development proposals for London: "Giant docks scheme"; "Retail giant"; "Retail colossus"; "East End tower giant" etc. (1). My selection places particular emphasis on size: is that merely a description of form or is it a celebration of the way scale can be used to symbolise the power of market investment, progress and commercial technology? Such form-imagery is clearly far more than descriptive.

The functional parts of the texts — those that describe what the buildings are for — have a corresponding homogeneity. This is the result of the writers' selective use of language which corresponds to the market's selective focus onto a limited set of commercial and social activities. "Science/commercial park", "marine centre", "exhibition centre", "offices", "hi-tech space", "trade mart", "studio space", "information technology centre", "gym", "health spa", "water park", "zoo", "multiplex cinema" are functions mentioned in the same set of articles. These functional images create a cohesive class of people which spends its time between fast moving, IT-based business deals, development of physical fitness, private art, reconstituted nature and a ceaseless round of eating, shopping and spectacle viewing. Life has become simultaneously "scientific" and "fun" on a massive and profitable scale. So in this language which deals with physical forms and with building functions, it is impossible to define what is "descriptive" and what is "critical". Language can never be innocent.

What is true for the text is equally true for the image: the selection of views, their lighting, the presence or absence of people, the use or (usually) the absence of plans — all these are part and parcel of a manipulative process which is the stock-in-trade of the media.

This much is clear to any intelligent reader. We all know the hundred and one ways by which we use language to carry meaning far below its surface content. We selectively use some words and not others, for example, in the same texts,

Can the language of the brief avoid cultural and linguistic overtones? Professor Thomas Markus, of Strathclyde University, believes not.

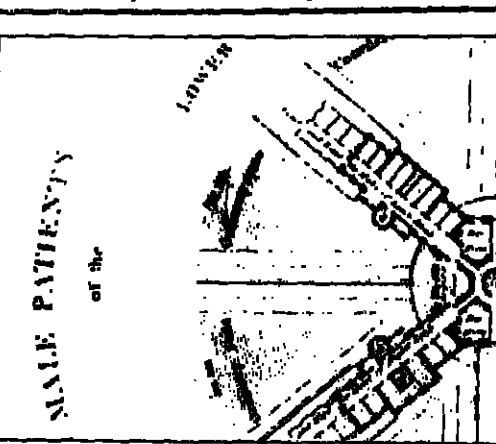


Fig 2a: Plan of William Stark's Glasgow Lunatic Asylum.

"style", will carry them. Post-modernist, hi-tech intestinal, pseudo-vernacular, mainstream "modern", or neo-classical will each have their appropriate occasions. The way the spaces are linked to each other, and to the outside, public domain, will be another powerful means of indicating who is who and the roles of all participants. But these formal and spatial devices all spring from definitions of

BRIEF ENCOUNTER



Fig 2b: Stark's asylum from Joseph Swan, *Select Views of Glasgow and its Environs*, Edinburgh 1828.

function — who does what, where; who has access to what or whom, where, when? So while the sponsors may give up formal or artistic control over the ultimate product, and may leave its spatial structure to emerge as an implicit, customary property, they will be as explicit as possible over the functional programme. Sometimes this will require a brief of bulky volumes, resulting from several years'

During the industrial revolution craft skill was replaced by engineering, hence the two great European traditions of architectural education, the *Ecole des Beaux Arts* and the *Ecole Polytechnique*. Art was defined as personal, subjective; technology as public, neutral. The brief, in the social sphere, had to be defined as equally neutral. So labels for buildings and functions, room areas, environ-

mental conditions, methods of circulation, access from outside, and a few adjacency or separation relationships, are couched in "objective", "expert" or "technical" language. It is not surprising that it has been impossible to admit the non-innocence of language in architecture as far as the brief is concerned; everything, in the end, depends on maintaining this fiction and thus putting it beyond debate.

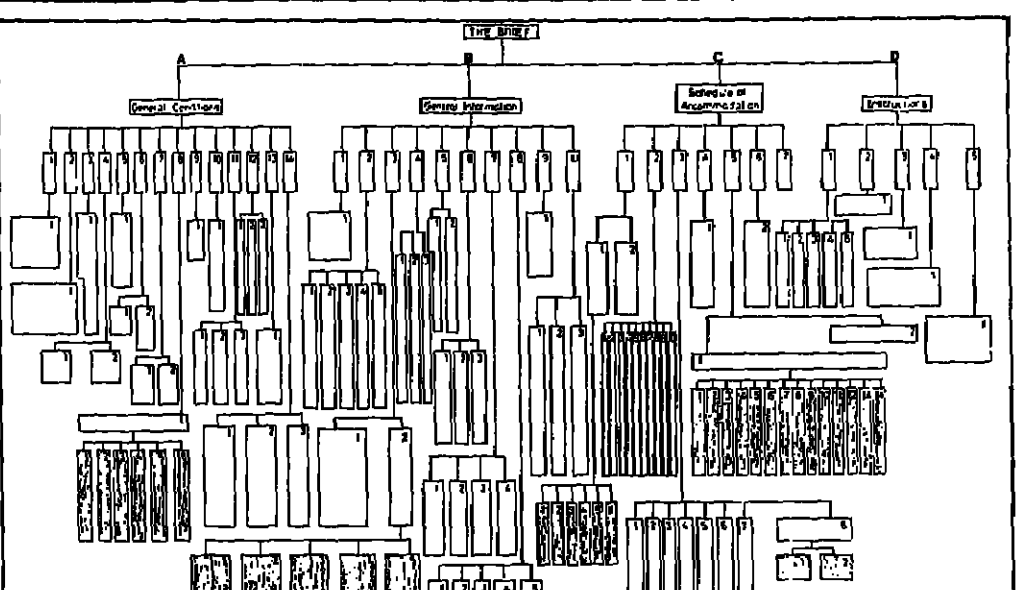


Fig 4: Hierarchical decomposition of Glasgow's Burrell Gallery competition brief (detail).

Stark in 1807, the building had to fulfil a number of functions. First, to house safely and "cure" both bourgeois and pauper lunatics, who were becoming an increasing burden on their families and the parishes respectively, and whose unreason was a threat not only to the mechanical, productive order of the day, but, in a particularly acute way in post-Enlightenment Scotland, to Rea-

son itself. So collecting, making visible and controlling these people, as was already done with moral disorder (crime) and physical disorder (disease) in prisons and hospitals, was an essential social and architectural task. Moreover these institutions were designed to be models of orderly society itself, a model based on classification by sex, economic means (ability to pay or not) and productive capacity. The terms of diagnosis referred to an individual's normal productive state, and each condition expressed the patient's distance from it.

Stark published the brief, in his client's terms (2) to express social relationships. The words are actually laid out on the page (figure 1) according to a hierarchical structure, which is then translated, still in words, into spatial locations such as "front" and "rear", "left" and "right" and "upper" and "lower story". The eventual centralised, cruciform, four-winged plan and the form of the dome over the central surveillance apartments (figure 2) were a direct outcome of this verbal prescription.

Sometimes briefs contain instructions in graphics as well as verbal form; for instance in the still current *Design Guide: Health Centres in Scotland*, a series of room diagrams and prescriptions is given. It turns out that in every room in which patients and staff interface, a washbasin is provided (figure 3). This includes the interview room and the social workers' office/interview room! The implication is that staff-patient contact is regarded as polluting and any space within which it occurs must be provided with ritual cleansing equipment.

In the competition brief for Glasgow's Burrell Gallery, it was required that "The Drawing Room, Hall and Dining Room of Hutton Castle (the Burrells' residence) are to be reproduced in the proposed building." All entries were obliged to do this — and with it to reproduce a whole set of ideas which Burrell had embodied in his collection and gift. First the notion of an eclectic private collection and its housing as part of an elite domestic setting. Secondly, the idea that the originator of a collection and his historical involvement gives the appropriate general framework for the display of objects all of which had been torn out of their historical and production con-

texts. (In the case of church porches and stone altars, the "torn out" is true in the literal sense). And thirdly the brief grouped the objects by region (France, Spain etc), by period (ancient, Romanesque, 1400-1600 etc), by material (pottery, porcelain and tapestry, etc), by use (table glass, weapons etc) and by subject matter (hunting scenes, religious and allegorical subjects etc). In other words every conceivable mode of classification except one which refers to the production of the object — made by certain classes of producers, for certain classes of patrons, paid or contracted for in certain ways, kept by owners and acquired and used by collectors.

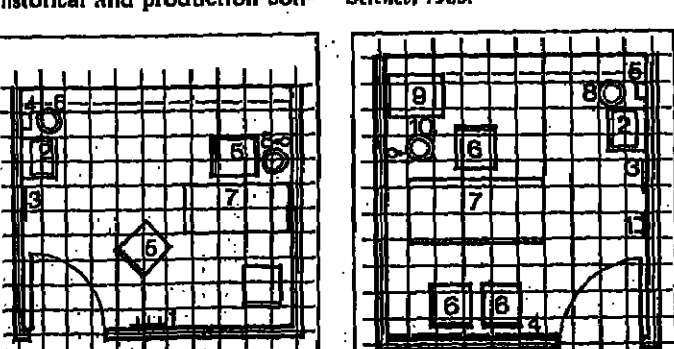


Fig 3: Plan of interview room and social worker's office/interview room from Scottish Home and Health Department Design Guide: Health Centres in Scotland, HMSO, Edinburgh 1973.

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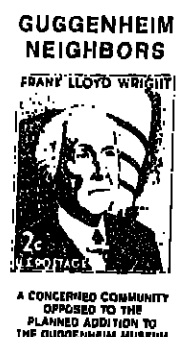
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GUGGENHEIM DILEMMA

Sandy Heck on plans to extend Frank Lloyd Wright's late masterpiece.



Aerial view of the museum in 1967, before the present annex was built by Peters.

IN designing their proposed addition to Frank Lloyd Wright's Guggenheim Museum, Charles Gwathmey and Robert Siegel have taken on not only the master, but also the master's masterpiece.

At its 1986 National Convention in June, the American Institute of Architects conferred on Wright's famous Fifth Avenue spiral the coveted Twenty-Five Year Award. Citing the museum's "bold and challenging vision and inspired sculptural presence... its rich spaces and abundant magical light", the awards jury noted that the Guggenheim "at once beckons people to the art within the building and the art that is the building". Therein lies a conundrum.

Unquestionably, the Guggenheim is bursting at the seams — and beyond. At present, the museum's library and archives are housed in rented quarters off-site. On-site, the Large Rotunda's top ramp is given over to storage. In the Small Rotunda, acoustical privacy is provided for the office of museum director Thomas Messer by acrylic panels slung across the atrium; other staff offices are tucked away in odd corners and Wright angles. Most crucially, the Guggenheim now has gallery space to show only 3 per cent of the 5,000 works in its ever-expanding permanent collection.

To dramatise this plight, on view until September 21 is a special exhibition, "Proposal for a Guggenheim Museum Addition A Showcase for Hidden Treasures". Admittedly and "advocacy show", the exhibition presents 47 extraordinary paintings by Kandinsky and Leger, Rothko and others which normally are relegated to storage. Were the Gwathmey Siegel proposal to be built, permanent exhibition space would be increased from 7,000 to 14,500sq ft; an additional 3 per cent of the Guggenheim's holdings — 150 works "from the very top of the collection" — could then be put on display.

With no increase in net area, offices and other "backstage" museum functions would be rationalised and relocated from the Small Rotunda to the new addition — thus, for the first time, opening to the public the entirety of Wright's original building. The library would be returned to the premises and housed in the present "High Gallery"; the archives elsewhere in the Large Rotunda. The

Gwathmey Siegel & Associates first drew up preliminary plans for a feasibility study, completed in 1982. In February 1985 their plans for a proposed Guggenheim addition were presented to the public. "Revised Scheme A" was announced in June; revision "B" in October 1. The current scheme consists of three major elements. Located against East 89th Street to the north and 4 East 89th to the east would be a new, poured-in-place "core wall" measuring 12ft deep x 88ft wide x 150ft high. It would contain two new fire stairs, passenger and freight elevators, duct shafts and toilets.

Like Wright's own slab proposal, it would intersect the Large Rotunda's existing fire

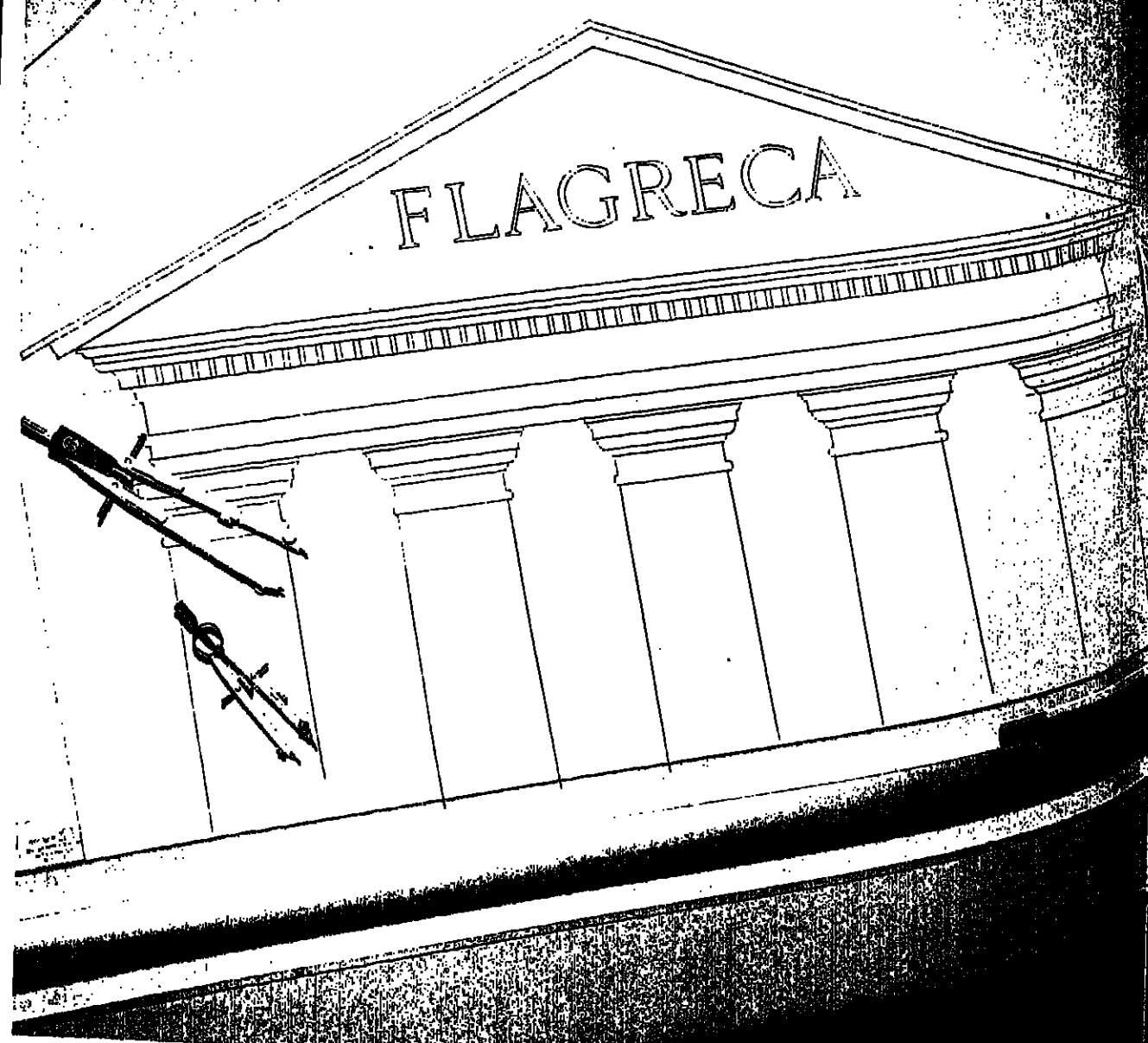
museum bookstore, enlarged by 500sq ft, would remain on the ground floor beneath the "bridge" connecting the Large and Small Rotundas. The total gross area of the Gwathmey Siegel proposal is 28,000sq ft; modest compared to the museum's present net area of 80,000sq ft and to the 161,500sq ft addition legally allowed "as-of-right".

Modest, too, is the specific site of the proposed addition. It is, in fact, the site of an existing annex designed by Wright's former son-in-law, William Wesley Peters. Located south of East 89th Street, east of the original Small Rotunda, and west of a late Art Deco apartment building is 4 East 89th Street. This is the same site on which in 1952 Wright himself sketched a gridded "backdrop" slab intended to house galleries, archives, and artists' studios.

In citing Wright's unrealised design as a first, authoritative precedent for their own proposed addition, Gwathmey Siegel hasten to point out that had it been constructed as dimensioned (25ft deep by 100ft wide by 150ft high), its spaces would be unacceptable as permanent exhibition galleries and unable to accommodate various other requirements in their programme. Moreover, Wright's design could not have been built as drawn in perspective — with the slab superimposed behind the Large Rotunda — for the plans show the slab sharing the Large Rotunda's fire stairs, thus producing a major intersection between them. In citing Peters' four-story annex as a second precedent for building on the specific site, Gwathmey Siegel note that both its footings and columns were designed and built to support six additional floors on top of the existing structure.

Like Wright's own slab proposal, it would intersect the Large Rotunda's existing fire

Another word for freedom.



Model view of Gwathmey Siegel's proposed annex. (Photo: Dan Cornish/Emu)

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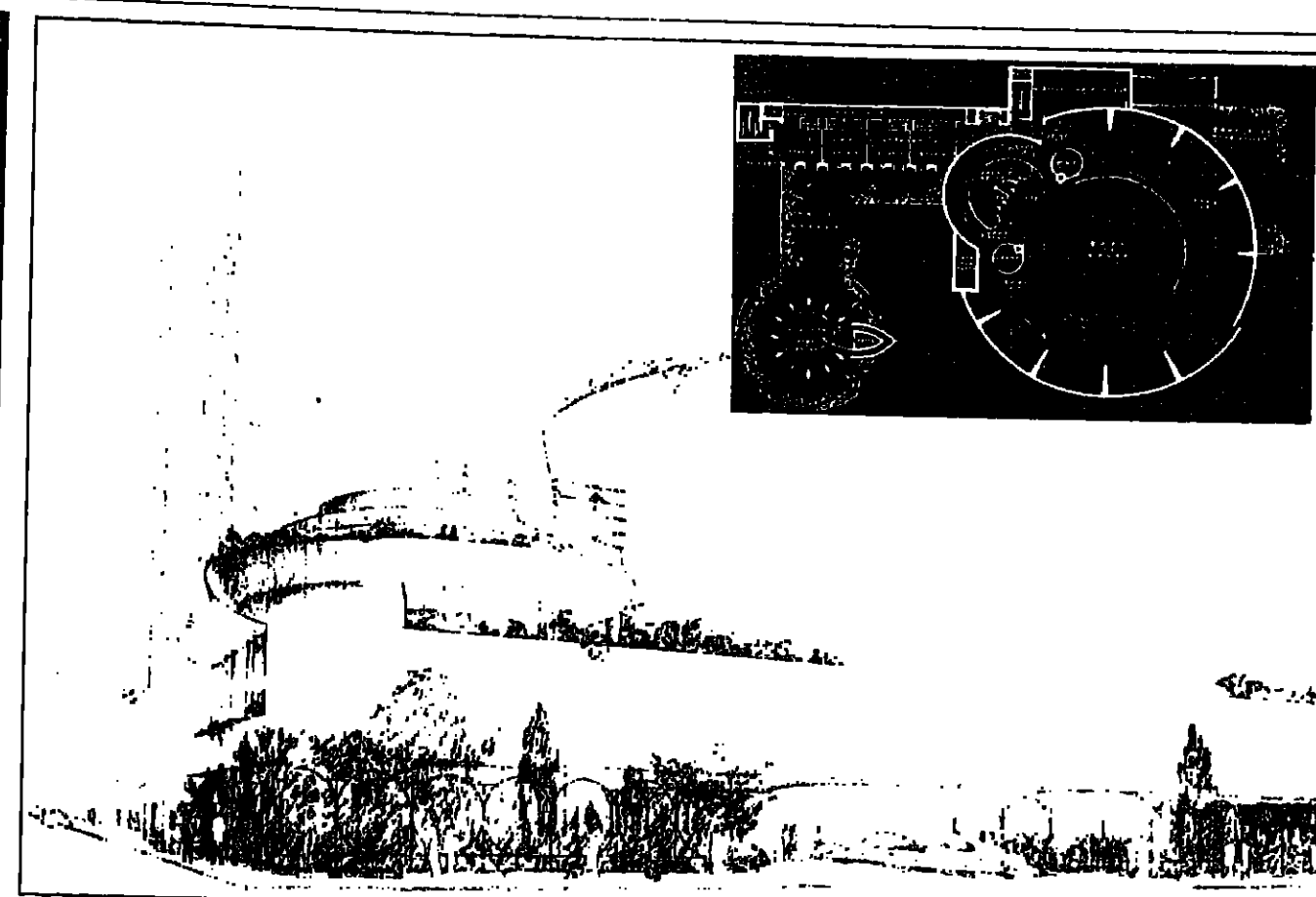
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Wright sketched this backdrop slab to house galleries, archives and artists studios. Inset: Wright's proposed annex, *Architectural Forum*, April 1952.

stair; it would, however, maintain a glazed, vertical reveal between the stair tower and the proposed core, "thus preserving the (original) building's primary form". (This is more clearly evident in the actual model than it is in either drawings or model photographs.)

The second element of the proposed addition would subsume a renovated annex (stripped of fire stairs, exterior and interior walls; with only floor slabs remaining) in spaces programmatically and physically integrated with those of the existing Small Rotunda and connecting "bridge". On the ground floor, an administrative lobby off East 89th Street would lead to a reorganised service alley with direct access to the new art elevator, new holding rooms, the enlarged bookstore, and the existing art elevator converted to service a relocated restaurant. Ground-floor spaces in the Small Rotunda would be renovated for public reception, membership, and public affairs offices.

The second and third floors of the existing annex at present are occupied by art storage; in the proposed addition, these would be redesigned as balconied, permanent exhibition space — joined on the second floor to the existing Justin K. Thannhauser Gallery located in Wright's "bridge"; and on the third to space converted from office to gallery use. The fourth, top-floor, of the existing annex also would be redesigned to house the permanent collection; space in the Small Rotunda to house the relocated restaurant; in the "bridge" for kitchen, circulation, and outdoor terrace.

Receding to the depth of the column wall of the existing annex below, Gwathmey Siegel's new fifth and sixth floors both would contain additional space for the permanent collection. The lower floor would give access to an exterior sculpture terrace overlooking the glass skylight of the Small Rotunda. A cylindrical glazed staircase, itself a sculptural form related in its material to that skylight, would connect the fifth and sixth floors. All of the permanent exhibition floors — both in the renovated annex (2-4) and in the new addition (5&6) — would be accessible from the adjacent levels of the original Frank Lloyd Wright spiral. The 74 bay-like spaces in the Large Rotunda would be reprogrammed to hold temporary exhibitions. The basic sequence of the permanent collection itself would be chronological.

The third major element of

the proposed addition would be five "open loft" floors cantilevered out from the core wall, with structural transfer from the existing column wall. All of the Guggenheim's "backstage" functions would be housed within it: all public spaces in the annex, "bridge", Large and Small Rotundas. Completely separating private spaces from public, and creating functional adjacencies which the museum considers essential for efficiency, economy, and security, the loft would contain art storage on the seventh floor; conservation on the eighth; staff offices on the ninth and tenth; and mechanical equipment and a small board room (with drop-dead views of Central Park) on the eleventh. The total net area of the proposed cantilever element would be 12,000sq ft.

Before arriving at this programmatic solution, Gwathmey Siegel investigated several alternative designs. One was a "complying building"; above the square balcony of the Small Rotunda, this alternative would have stacked forms resembling biscuit tins and milk cartons in such a way as to "ridicule and obliterate Wright's original, organic massing". A second alternative, building "as-of-right" and observing the Fifth Avenue Street Wall ordinance, simply would have demolished the Guggenheim and replaced it with a monolith 201ft long x 70ft deep x 150ft high — with 20ft setbacks and an additional 60ft mass on top. A third alternative of constructing vaults beneath the perimeter pavement was eliminated because of cost, and because an active underground stream running across the site would render both climatic and fiduciary assurance unobtainable.

The architects rested their case: "Given the program, the site constraints, ... and the historic significance of Frank Lloyd Wright's building, there are no alternative designs which we could recommend."

So much for programme. As for the architectural and urbanistic merits of the proposed addition, Gwathmey Siegel contend that it would be "referential, contextual, and interpretively sympathetic". After measuring and analysing the original building, senior associate Jacob Alspector concluded: "Frank Lloyd Wright's lifelong explorations in the inherent geometry of circles, triangles and squares culminated in the Guggenheim."

continued page 32

Guggenheim dilemma

from page 31

These forms are evident in Wright's semicircular elevator shaft, the triangular staircase, and ... in a design discovery: "... the Guggenheim has an additional overlaid square, Cartesian grid of four-foot units which is on the same orthogonal as the (Manhattan) street grid." Modules of this four-foot grid are manifest as four- and eight-foot circles inscribed, respectively, in the interior and exterior paving of the Guggenheim. They also are manifest in the dimensions controlling the Large and Small Rotundas in both plan and elevation — 96ft and 48ft respectively. Gwathmey Siegel have appropriated this same module in their proposed addition: overall massing has been determined in four-foot increments; the "loft" would be clad in grey-green porcelain panels and grey-green flush glazing — both four-foot square.

Other materials would be used in ways which are both "referential and contextual". On the 89th Street facade, the new walls of the renovated annex and the new fifth and sixth

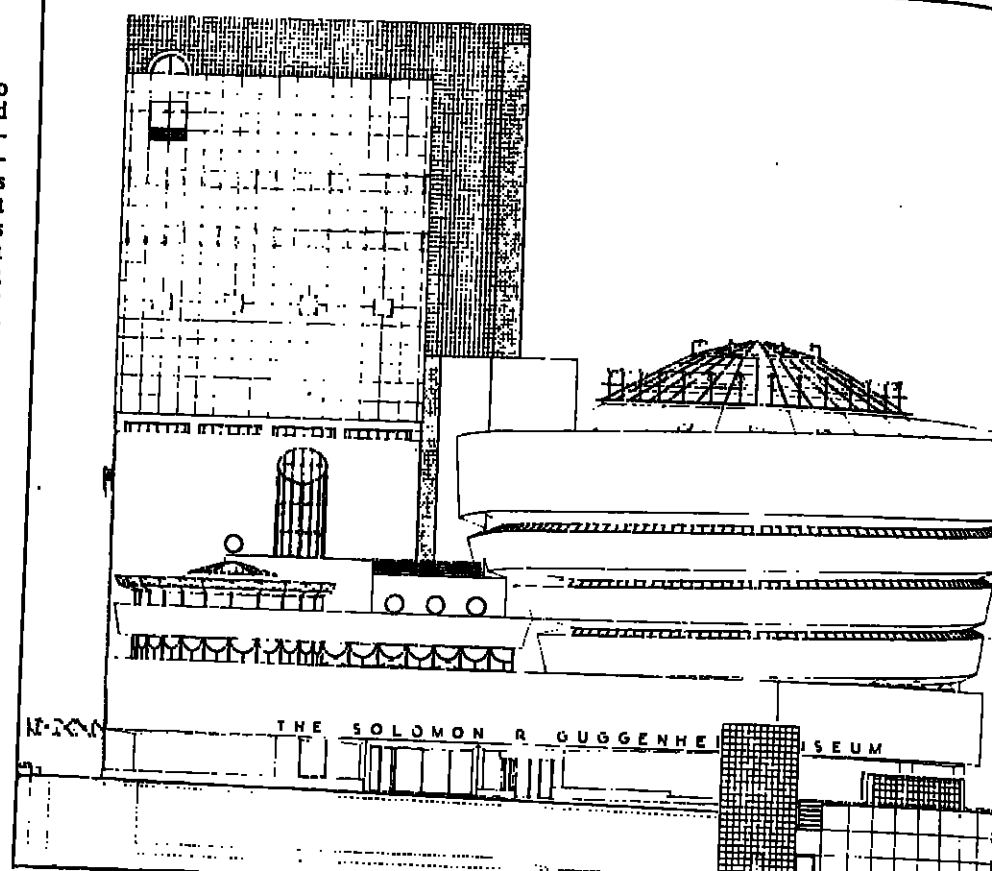
Floors would be clad in light-weight concrete matching the existing cream colour of the original building. In this way, not only would new be unified with old, but the exteriors of all public spaces — including the "bridge" and Large Rotunda — would be expressed with chromatic consistency. The proposed core wall would be clad in one-foot square quarry tile, "summarising and neutralising the varying coloured brick, limestones and granites on East 89th Street". The existing column wall of the annex would be coloured terracotta, "again making reference to East 89th Street as well as establishing a sympathetic, contextual 'background' wall to the Small Rotunda."

This latter intention would be reiterated at a larger scale and in three dimensions by what the architects call the "context frame": the volume formed at a uniform height by the top of the core wall, and by significant setbacks of the Fifth Avenue apartment buildings on the north corner of East 89th Street and on the south corner of 88th. These attempts at reference

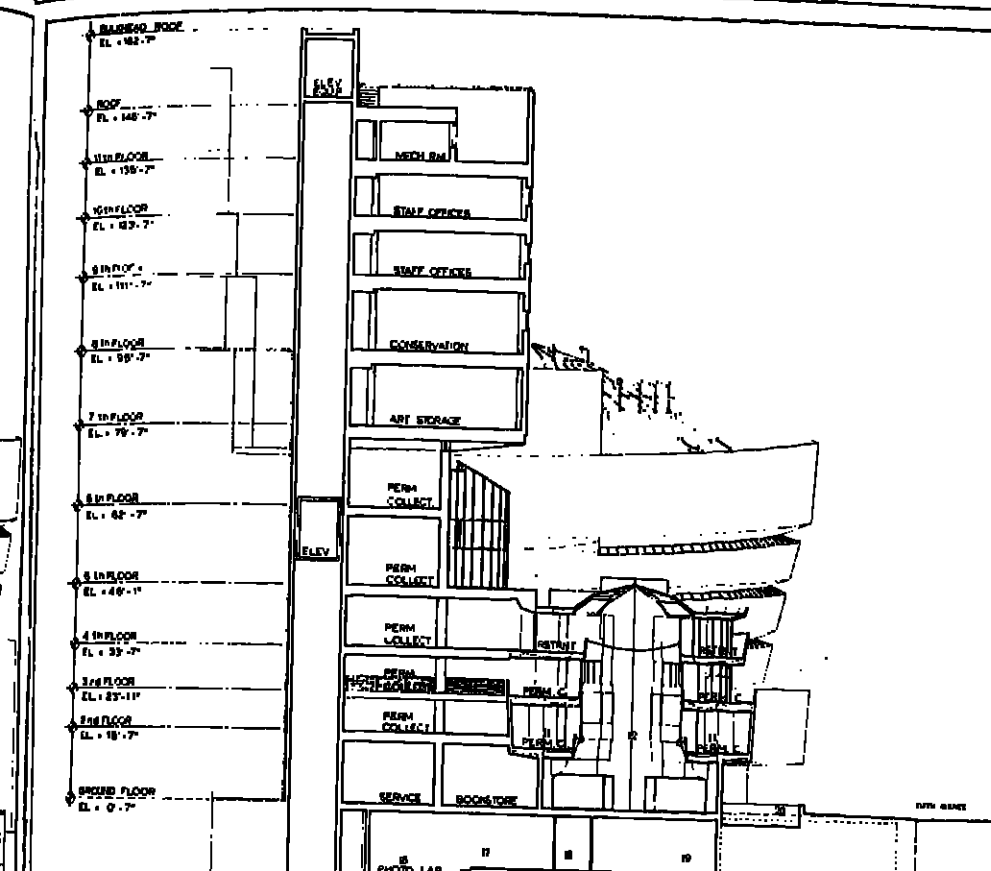
and context are fundamental to Gwathmey Siegel's proposed addition. Admitting the architects' unquestionably competent resolution of the museum's programme and of the difficult site conditions, they nonetheless raise important questions about the scheme's ultimate validity; and about how "interpretively sympathetic" — and accurate — it may be regarding Frank Lloyd Wright's actual intentions.

One year after the Guggenheim was completed, Peter Blake wrote: "Apart from its importance as a plastic statement, (the Guggenheim) is important as Wright's last slap at the city. No building could be designed to fit less well into the established urban pattern — and that, in Wright's view, was about as great a compliment as you could pay a building."

Wright's use of a four-foot module may have been an ironic, dialectic allusion to the Manhattan street grid, but it would be difficult indeed to interpret the museum's "organic" forms as intended for inclusion in the insistent orthogonality of New York City; demonstrably the opposite: The



Fifth Avenue elevation of proposed annex.



Section showing gallery space at lower levels, offices over.

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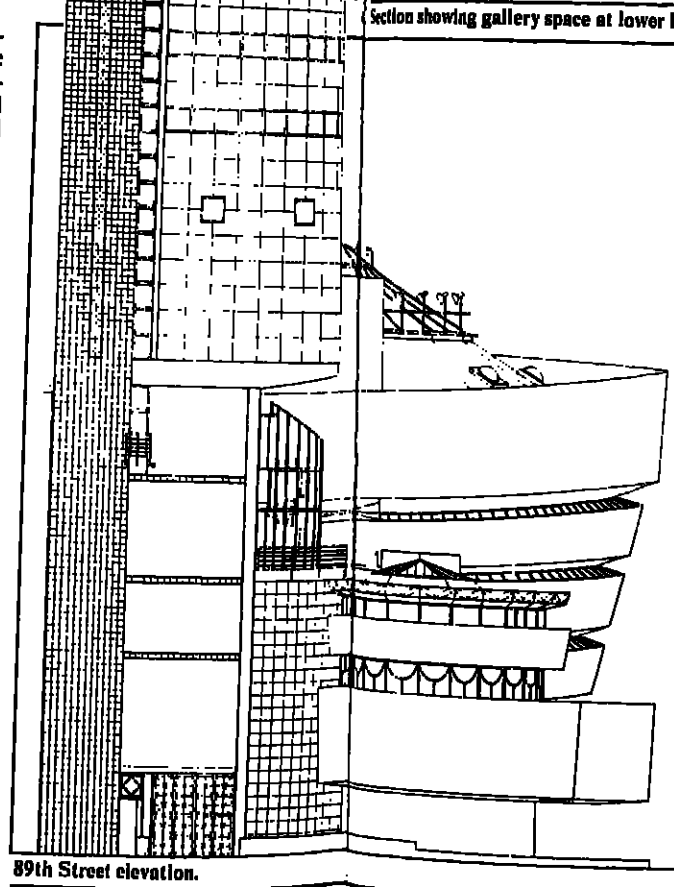
(gridded) smaller circles inscribed on the floor of the Guggenheim have been co-opted to spiral upwards and in/outwards with the helical ramp of the Large Rotunda. As for Gwathmey Siegel's own intention to reference the context — the height of the annex renovation addition would correlate with the height of the existing six-storey apartment buildings along East 89th Street, and the coloured concrete and quarry tiles of the column and core walls might actually "summarise and neutralise" that block's existing materials.

Nevertheless, and disregarding momentarily the argument that contextualism was not Wright's intention, would not the effect of the core wall — 88ft wide x 150ft high, and transversely interposed mid-block — be to isolate the Guggenheim in its context frame from the rest of the city? Moreover, how congruously would 4,958sq ft of grey-green panels, with flush glazing, accord with Fifth Avenue's traditional facades of ornamented masonry?

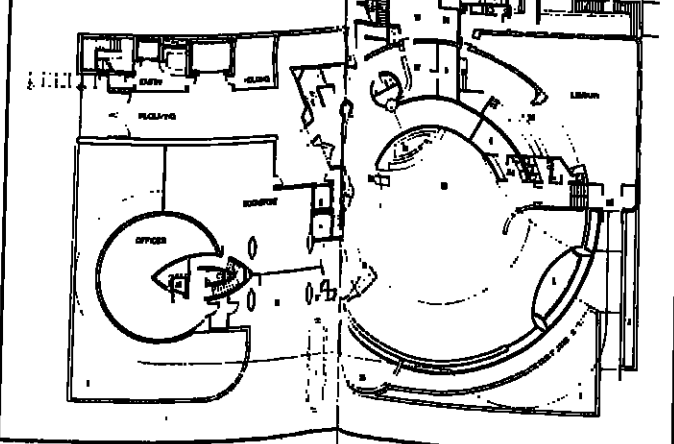
Gwathmey Siegel propose that their cantilevered loft be regarded as the third "object" in "a carefully considered asymmetrical assemblage" composed also of the Large and Small Rotunda "objects".

A major consideration in assessing that proposition would have to be, how important is it that the space above and behind the Small Rotunda be void rather than solid? Would the loft appear to bear down on the Small Rotunda with an effect similar to that of Michael Graves' proposed "bridge" over Breuer's Whitney? And would the static mass of the loft in any way diminish the kinaesthetic dynamism of Wright's Large Rotunda?

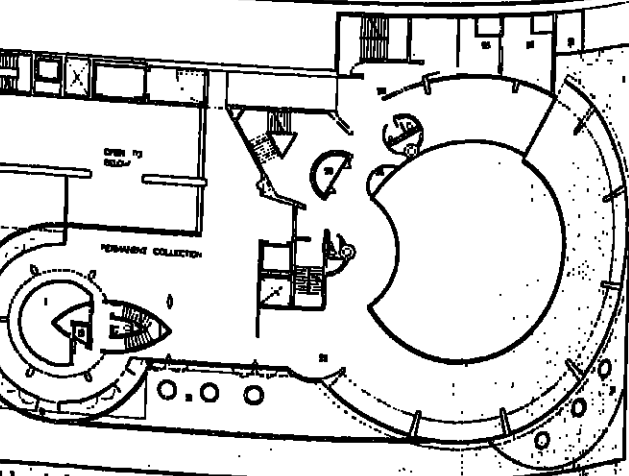
A minor consideration would



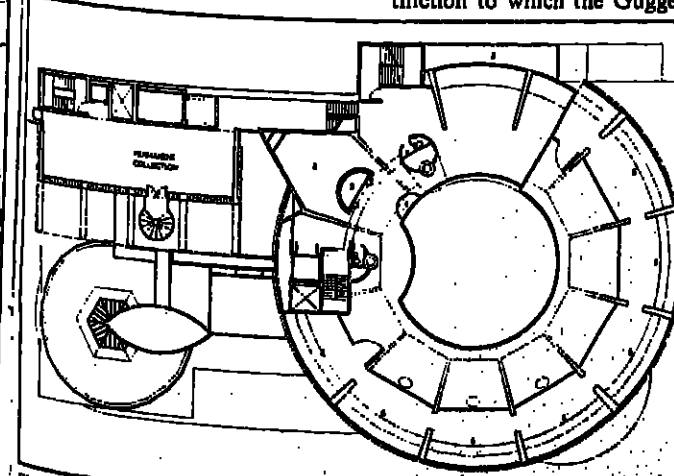
89th Street elevation.



Ground-floor plan.



Third-level plan.



Sixth-level plan.

be how carefully this third "object" is perceived dimensionally to related to Wright's original "objects" — based as they are on the four-foot module: the depth of the loft does align with the centre-line of the Large Rotunda, as does the cantilevered soffit with the spiral's uppermost parapet; but — conceptually a "half-cube object" — the loft's actual width exceeds its notional dimension by the thickness of panel returns on both sides, as does its actual height the nominal 64ft square by the height of the 11th floor.

Finally, some speculation about the necessity for a "gridded rectangular slab presenting a plainer background to the north portion of the site", as contended by Gwathmey Siegel; even as sketched by FLW. Originally (1948 drawings), Wright sited his Large Rotunda to the north, setting it against the existing apartment house at 4 East 89th Street; ultimately, he turned the Guggenheim through 180 degrees: the better to have his primary "object" — the spiral (reduced in height by one turn) — turn more freely in space, and be read against the less obtrusive townhouses to the south.

Wright having thus established the proper context for a correct reading of his principal architectural statement, might one not argue that at the same time he also introduced the actual condition necessary for creating his intended urban dialectic: that without the analogue of any additional "gridded rectangular slab" — either Gwathmey Siegel's or Wright's own — 4 East 89th Street is, in the orthogonality implicit in its trabeated structure and explicit in its setback massing, already more than adequate to represent the rigid, rectangular city in contradistinction to which the Guggen-

heim was designed?

Commensurately — and ironically — would not the further addition of any mass circumscribing the ambit of the museum's external volume diminish the effect to achieve which Wright flipped the scheme in the first place? In this regard, one notes that two previous additions have both had a negative impact on the requisite envelope of space, in which Wright wrote his last will and testament concerning spatial continuity and forms (possibly as metaphors for the individual) freely expressing themselves in an urban context.

In 1968, Peters' annex not only replaced the void of the original, open service courtyard with an octagonally-panelled solid; it also curtailed the rounded emphasis of the Small Rotunda by orthogonally attaching it to 4 East 89th Street. Even more critical for its consequences on the spatial energy of the main, Fifth Avenue elevation was the infilling in 1974 of the driveway beneath and perpendicular to the connecting "bridge"; the enclosed space contains the present restaurant and bookstore.

If one admits these once-open spaces as counterparts neces-

sary to realise the solid-void synergy inherent in Wright's "organic" forms, then should one attempt to pull down the existing annex and again open up the space beneath the "bridge"? More realistically, should one further fill in the remaining space above and behind the Small Rotunda with Gwathmey Siegel's proposed addition? The most outstanding piece in the Guggenheim's permanent collection is, after all, the Guggenheim itself.

The Guggenheim provisionally has scheduled the opening of its proposed \$9 million addition for 1987, in time for the museum's 50th anniversary celebration. Completed in 1959, Wright's masterpiece is still too young to be landmarked by New York City, which requires that a building be at least 30 years old before official designation. Lying outside the Upper East Side Historic District, The Guggenheim is also unprotected by conservation zoning.

Nonetheless, as a building permit for the proposed Gwathmey Siegel addition would need variances pertaining to lot coverage, setbacks, rear yard encroachment, and sky place exposure, the proposal on June 25 came up for a hearing before

New York City's Board of Standards and Appeals. The basis for that hearing was an environmental impact statement requested by New York's departments of city planning and environmental protection; significantly — for the first time ever — the Guggenheim environmental impact statement was obliged to include not only quantitative data, but also qualitative evaluations of the scheme's architectural and urban characteristics.

The day-long hearing before the board was packed, with proponents sitting on one side of the room, opponents on the other, and the quizzical lining the walls. Advocates of the scheme spoke first. Messer explained why the museum needed the addition. Gwathmey presented his design. From the museum world, Philippe de Montebello, director of the Metropolitan Museum of Art, argued that at present the Guggenheim was failing its public because so much of the museum's outstanding permanent collection remained in storage and inaccessible for study and enjoyment; he argued, moreover, for accommodating curators and collection in the same structure. "You would not

continued page 34

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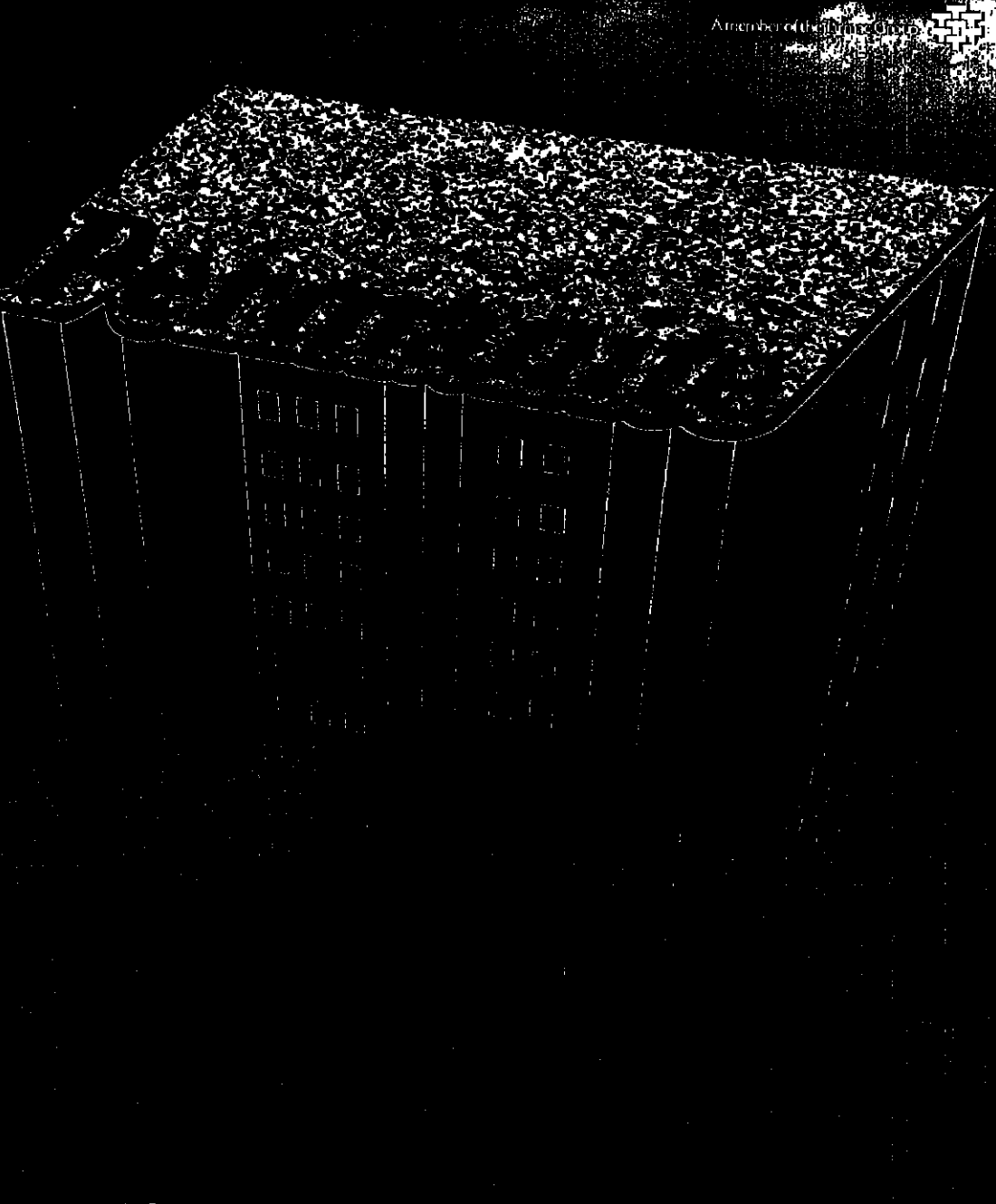
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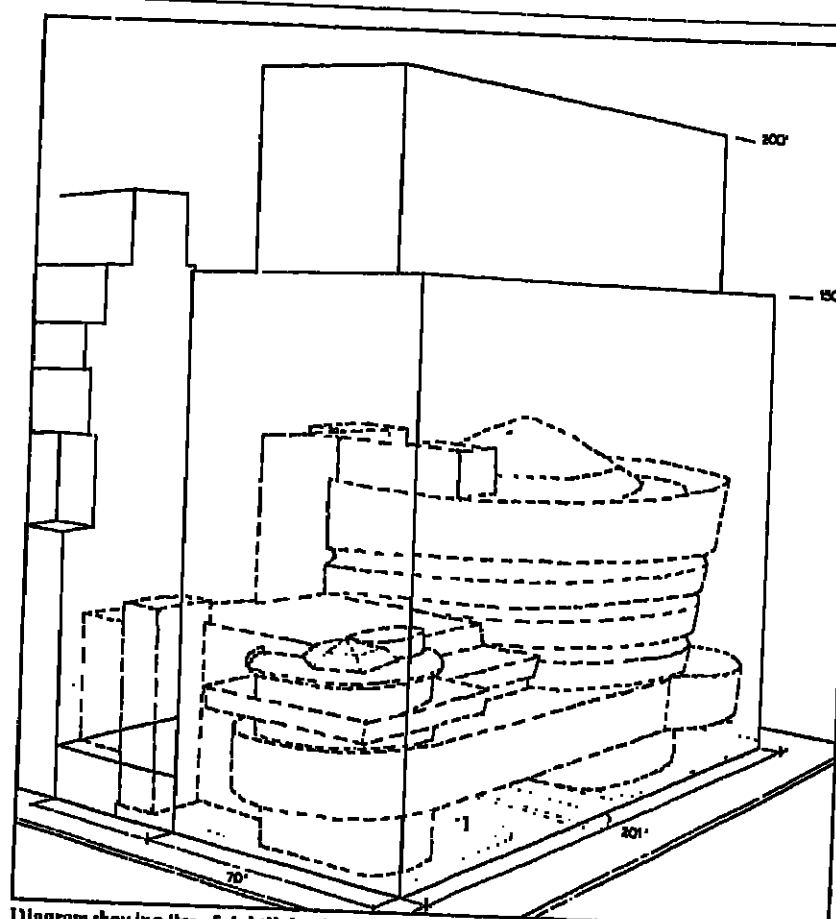
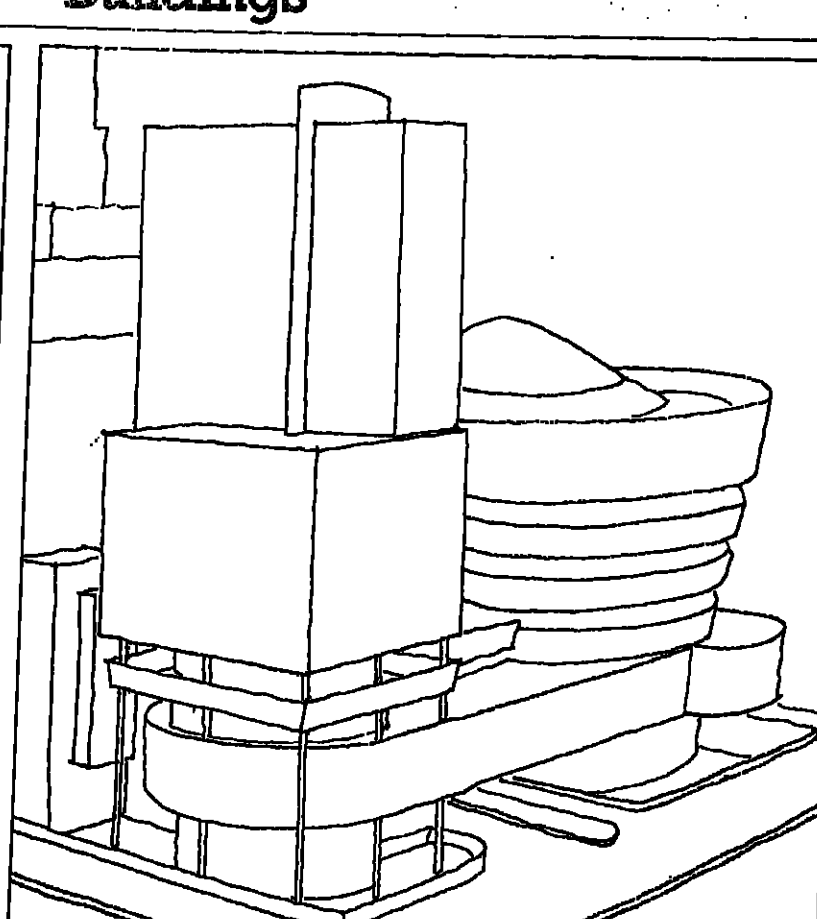
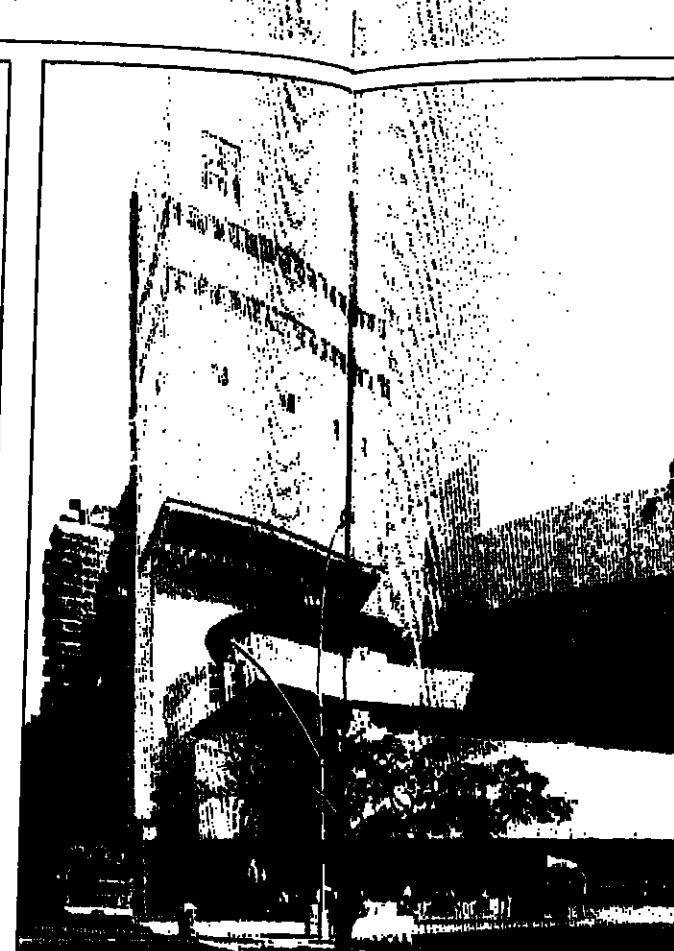


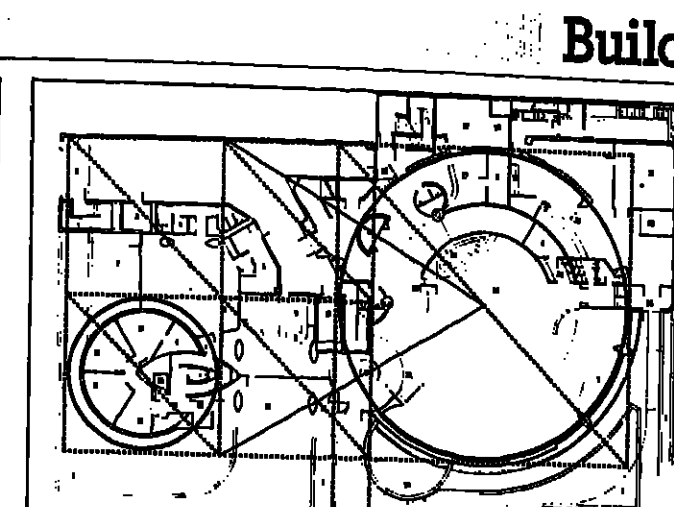
Diagram showing "as of right" development area if the museum were demolished.



"Complying model" showing logical development.



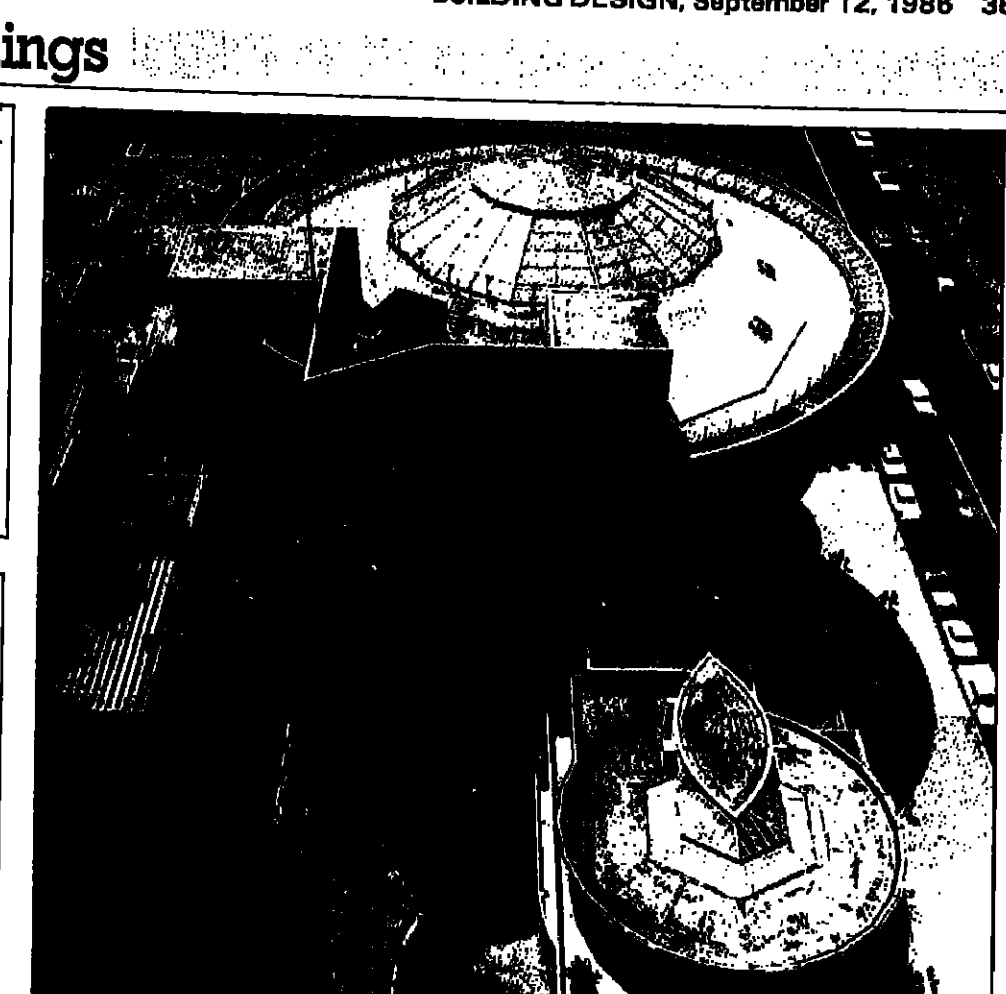
Collage rendering of the annex by Michael Kwartler & Associates.



Ground plan with elevational/plan geometries.

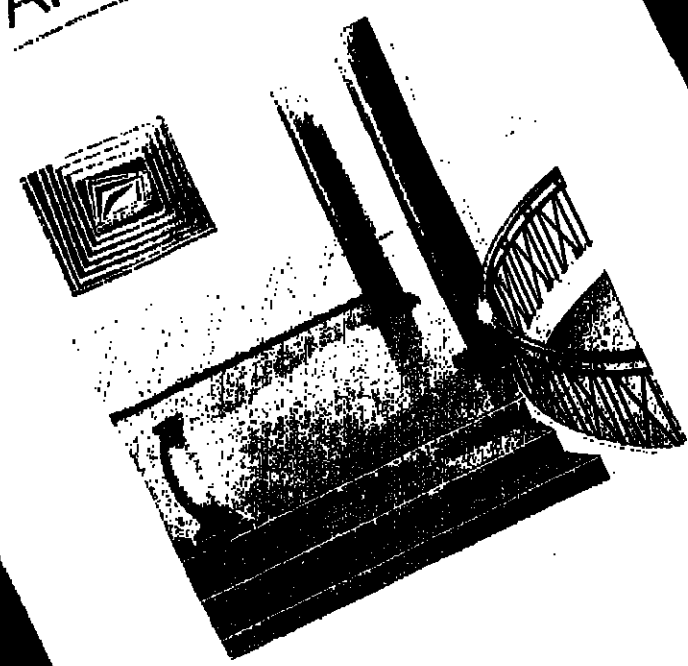


Principal elevation with overlaid geometries.



Top view of the museum in 1967; the site for the proposal is in the lower left corner, replacing the 1968 annex.

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Guggenheim dilemma

from page 33

build a zoo and put the zookeepers in a building miles away."

Among architects, Peter Eisenman contended that what mattered to Frank Lloyd Wright was neither conservation nor contextualism, but "living stones". Eisenman expatiated: "There is no monument that we know and revere in Europe that has not been the product of accretion and addition. The Bernini addition to St Peter's, the Louvre, and the National Gallery, all have been added to over history. That is what makes the greatness of a building, not the preservation of the original context." Sardonically reinforcing that point, Stephen Lesser remarked: "If Frank Lloyd Wright were the architect of the addition, I think the chances are that he, too, would be here before you today."

Detractors of the scheme — and there were many — spoke second. Wes Peters, who after Wright's death became the architect-of-record for the Guggenheim, described the proposed addition as "a gaudy tombstone". Edgar Kaufmann Jr, the former Wright apprentice who grew up in Falling Water, asserted that "Gwathmey Siegel are attempting the utterly impossible, squaring the circle — both literally and figuratively". In addition, the board "stamped" for inclusion in the day's record various letters written in opposition to the scheme; such letters were received from: Boone Powell, the architect who initially nominated the Guggenheim for the AIA's 25 Year Award; 100 Fellows of the American Institute of Architects; Ada Louise Huxtable, former architecture critic of *The New York Times*; Ezra Stoller, the architectural photographer; Allister Cooke and Woody Allen.

Specific, substantive points against the proposed addition were made primarily by Michael Kwartler, director of the Historic Preservation Program at Columbia University. Kwartler — citing Wittkower — first argued that the system of geometric analysis utilised by Gwathmey Siegel was fundamentally a scenographic, Renaissance device applicable only to the surface and mass of essentially static buildings —

not to an architecture so spatial and dynamic as the Guggenheim's.

Kwartler and others also argued against taking seriously Wright's intention actually to build a gridded "backdrop" slab; and, hence, of accepting that design as an authoritative precedent for Gwathmey Siegel's proposed addition. Wright's gridded slab, they pointed out, never was fully resolved between plan and perspective; neither was it included in any complete set of drawings, nor in the final, signed perspective of 1956. It was, however, always depicted as a true "backdrop", which, Kwartler contended, the proposed "loft" would not be. In generating a tripartite composition, it would both vitiate the primacy of the Large Rotunda — "that off-centre centrepiece" — and alter the "meaning, hierarchy, and iconography" of the original, bipartite Guggenheim. Finally, addressing the issue of context, Kwartler asserted that it was "a somewhat peculiar idea to attempt to conventionalise so radically unconventional a building".

In concluding the hearing, the board assigned a number of paradoxical "tasks" to both sides of the room. Proponents of the addition were asked to state in greater detail their cases that an expansion in underground vaults would be uneconomic, in a "split site" curatorially unfeasible. They also were asked if continuing growth of the permanent collection would not in future require yet another addition: just as Peters' annexe of 1968 had been outgrown, might not Gwathmey Siegel's of 1986? Opponents were asked to demonstrate that the Large Rotunda was not, in fact, unsuitable for display of the permanent collection. They also were assigned the task of elaborating the criteria according to which in their view the proposed addition would be "detrimental" to the original Frank Lloyd Wright building.

The day ended with the remark: "Obviously, we will have another hearing." The board will on that occasion have to steer its way between the Scylla of the museum's manifest programmatic needs — more than adequately met by Gwath-

mey Siegel — and the Charybdis of interpreting and respecting Wright's intentions and *summa opus*. Therein lies the conundrum.

Footnotes

1 "Revised Scheme A" supported the loft element on five columns, rather than on a cantilever. In revision "B", the restaurant has been re-located from the top floor of the addition to the fifth; the loft's

dimensions reduced by 16ft horizontally, 56ft vertically — thereby decreasing its bulk, and increasing the volume of space north of the Large Rotunda.

2 At the architects' request, on February 25, 1986, the New York Chapter of the American Institute of Architects held an open forum to discuss Gwathmey Siegel's proposed Guggenheim addition.

Among others, Richard Meier — who in 1978 completed the Guggenheim's Aye Simon Reading Room, left undesignated at the time of Wright's death — commented: "Adding to the Guggenheim is an

extremely difficult problem, and one which (Gwathmey Siegel) have handled masterfully. Having worked in the building, and renovated a broom closet, I know what it is to relate to Frank Lloyd Wright's architecture. . . . (Nevertheless) we all may wish that the program might be slightly smaller, that the museum's needs were not as great as they are."

Earlier, opening his remarks, Gwathmey had commented that neither he, Siegel, nor the museum, "want to further justify the programmatic necessity of renovation and addition. (We) do not

think it is appropriate to discuss alternative suggestions. . . ." At the time of this writing, it is understood that Michael Graves is redrawing his proposed addition to Breuer's Whitney Museum — to a reduced program.

3 It should, perhaps, be noted that when this epigonal annex was decided to sell the 1952 Art Deco apartment building in order to pay for it, Messer, who became the Guggenheim's director in 1961, approved that decision. His approval today seems regrettably shortsighted, especially in light of

remarks made by Messer on February 25, 1986: "It had become plain almost immediately upon assumption of my duties at the Guggenheim that the building fulfilled only part of the museum's central needs and that its evolving mission required more as well as different spaces if it is to be carried out successfully."

4 If the Guggenheim still owned 4 East 89th Street, then site constraints on the museum's present — and future — plans for expansion would be considerably eased.

5 Seeing this side elevation, one wag was heard to say: "Oldenberg most likely would have attached an

enormous chain to the top of the core wall; pull, and more than grey-green glazing would be flush."

6 Blake, Peter Frank Lloyd Wright Pelican edition reprinted 1969 p122.

7 In the Guggenheim bookstore, more postcards are sold of the building itself than of works in the museum's permanent collection.

NB In the body of the article, unless otherwise indicated, phrases in inverted commas — " — have been taken from the preliminary draft of the Environmental Impact Statement prepared by Gwathmey Siegel & prepared by Gwathmey Siegel.

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Buildings

HISTORY ADDITION

PROVIDING much needed inner city housing in the city's historic quarter, Ainsworth Spark Associates' scheme for Charlotte Square in Newcastle-upon-Tyne was awarded the top National House-Building Council award earlier this year.

The city council had advertised the site for development in 1981 without success. Ainsworth Spark prepared a feasibility proposal for a mixed development of housing and modest commercial use which gained city planning approval and was offered to Barratt to develop. Barratt commissioned the architects to develop the concept drawings and take the project on site.

The site lies in the historic area between the 18th century listed buildings of Charlotte Square and the 13th century Blackfriars friary. It is also next to the Chinese commercial centre and the Blackfriars crafts centre.

Backed by an urban development grant,

Ainsworth Spark's design for Barratt provides 69 bedsits and one- to three-bedroom shared flats with lounge, kitchen, dining room and bathroom. Responding to the constraints imposed by existing buildings, the architects have produced an inner courtyard — Blackfriars Court — with Charlotte Walk linking the square and the friary.

A new arched entry from the square frames the friary and provides a potter's shop and Chinese travel agency, renewing links with the crafts and Chinese centres nearby.

The housing is of red brick with slate roofing to complement neighbouring buildings and painted galvanised steel railings and Victorian-style lamp-posts to add to the traditional feel. The practice also reused original granite setts and the open spaces have been landscaped to enhance the calm of Charlotte Square and the friary.

The 12 month project was completed last August at a cost of £1.3 million.

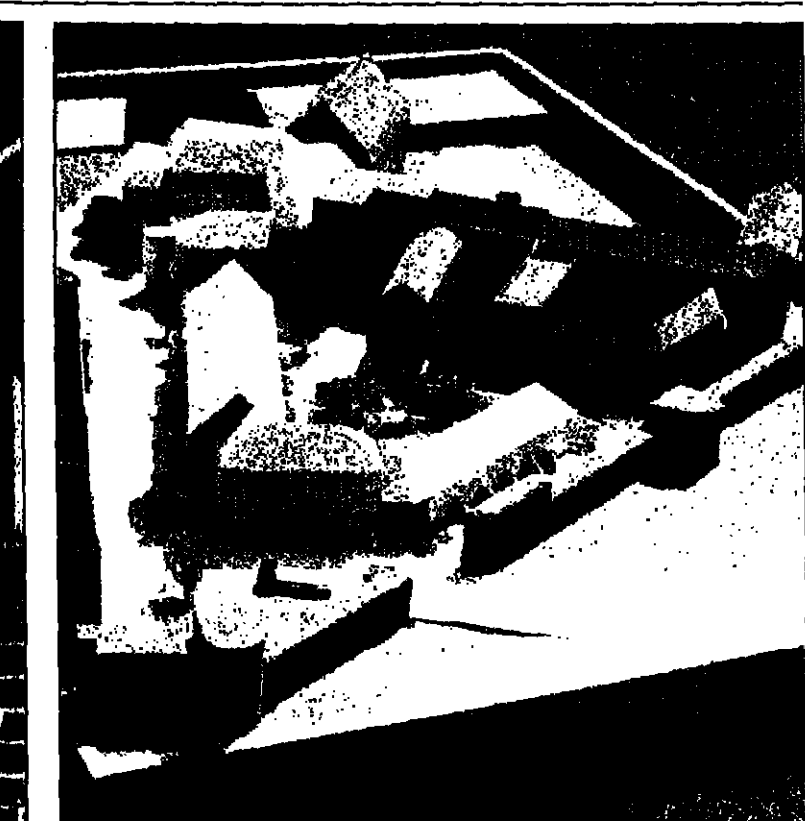
Fiona Gorman

The architects have replaced granite setts and traditional style street furniture to retain the historic atmosphere in Blackfriars Court.

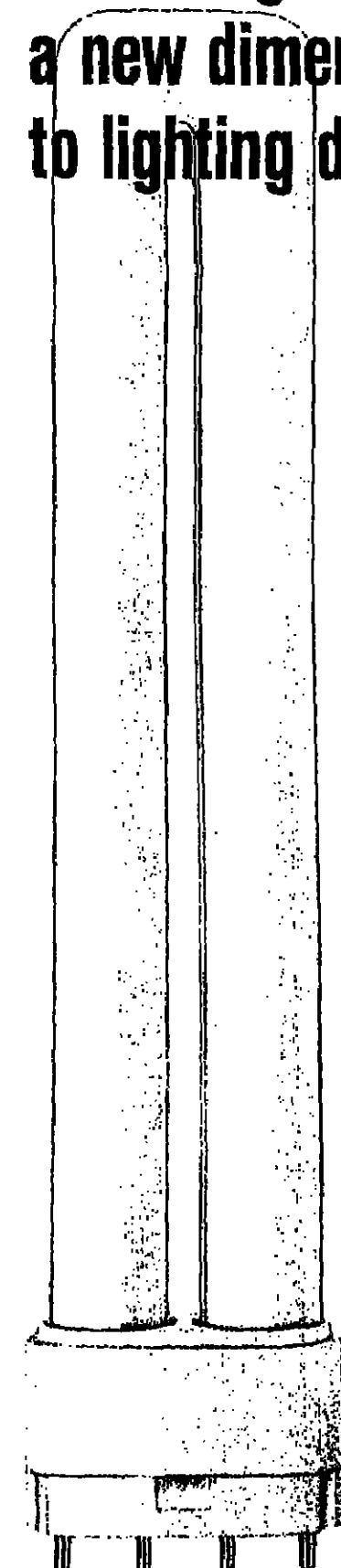
Model indicating new and old development and landscaping.



View from the friary through Charlotte Walk and on to Charlotte Square.



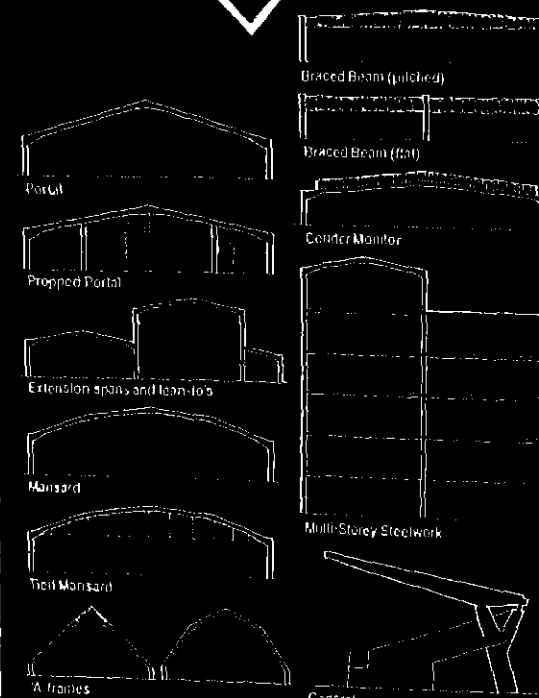
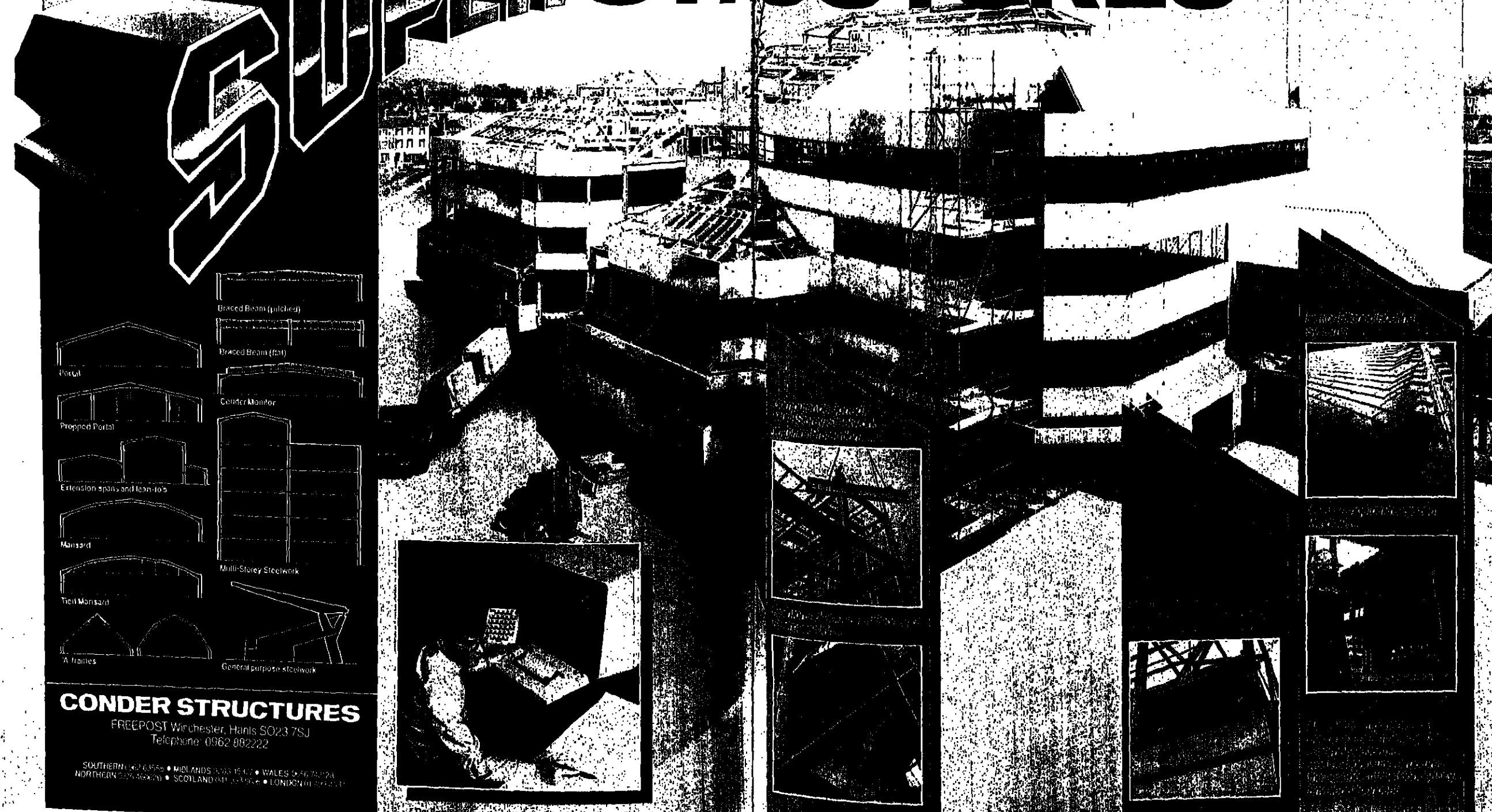
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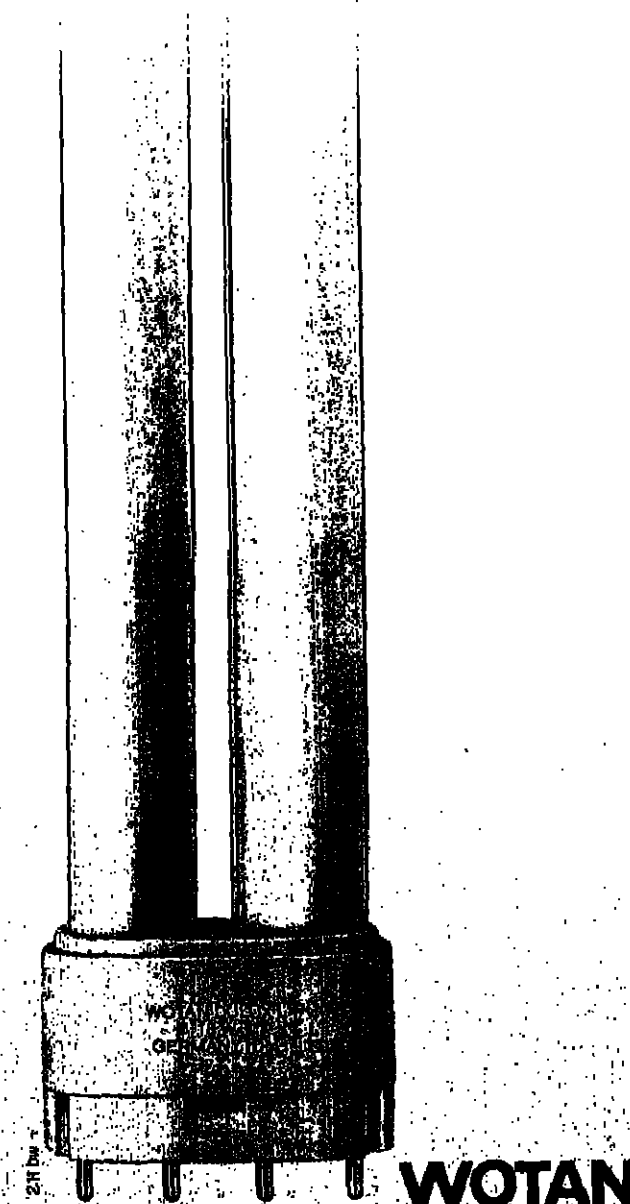
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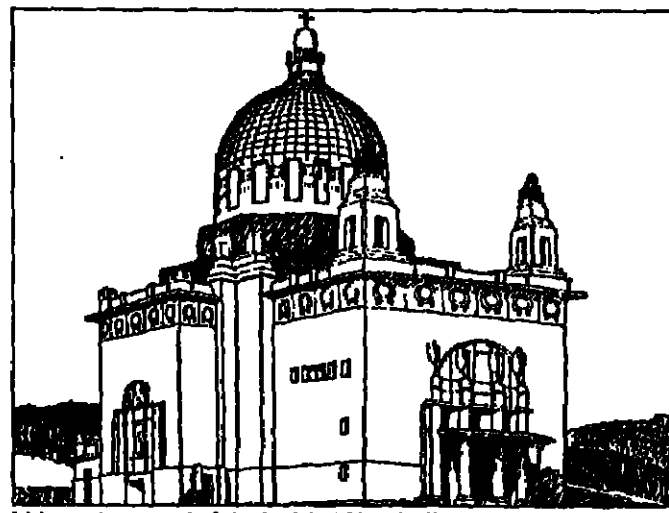


WOTAN

Exhibitions

VIENNA IN PARIS

"L'Apocalypse joyeuse" is the French version of the major exhibition on turn-of-the-century Vienna that began in Austria and has now travelled on to New York. Yehuda Safraan examines the French context of the Pompidou Centre show.



Lithograph postcard of the St. Stephen's Church, Vienna, by Otto Wagner; the drawing by Josef Divoky was published by the Wiener Werkstätte.

IF Karl Kraus described the Vienna of his time as the "Laboratory for the Apocalypse", Hermann Broch, a generation younger, described it as the "gay Apocalypse".

Indeed, apart from an outstanding selection of Alfred Kubin's graphic work in a dark L-shaped corridor, and the pained eroticism of Egon Schiele, it is the gay part of the apocalyptic vision that informed the larger part of the exhibition at the Centre Georges Pompidou, up to the final section containing a slide show of those forced into exile. We saw the better known of the Viennese intelligentsia flash onto a screen for a few seconds each, to the tune "Blue Danube".

It is significant that among the writers of the post-World War I era only Elias Canetti was rescued from oblivion in the 1970s by an unexpected Nobel prize, awarded to him for a book published more than 50 years

previously.

The current interest in the Vienna of the early part of this century is no doubt due to a growing sense of the unhealed rupture with the past that occurred as a result of catastrophic political polarisation, totalitarian order and total war. When forms of life, habits of thinking and sensibilities were submerged in the heaps of rubble Europe had become, the raw nerves of European life remained exposed, and only scattered individuals in the aftermath of war could begin to retrace certain lines of thought in art, architecture and culture as a whole.

"Mitteleuropa" has been divided into what is now known as Western and Eastern Europe. In a series of lectures and articles the emigré writer Milan Kundera, among others, attracted attention in France, America, and elsewhere to a Central European cultural identity which transcends political barriers.

In a paper given at a meeting in Budapest and published in the *New York Review of Books* in December 1985, Alain Finkielkraut observed that "during the past three decades, Europe has not been part of the preoccupations of the French intelligentsia; in the 50s and 60s the concept of Europe did not at all attract the attention of intellectuals".

Europe was identified with the Common Market and as such it was the province of the politicians, experts and technocrats; the intelligentsia, or at least its most influential part, could not have cared less.

Why this indifference? For two historical reasons. I think: National Socialism and the process of decolonisation. Hitler, as we all know, was moved by the idea of building a new European order. His intention was to preserve the ethnic, the Aryan integrity of Europe from the "poisonous" blood of the gypsies, the Jews, and others. By nearly achieving this goal, he discredited the very idea of

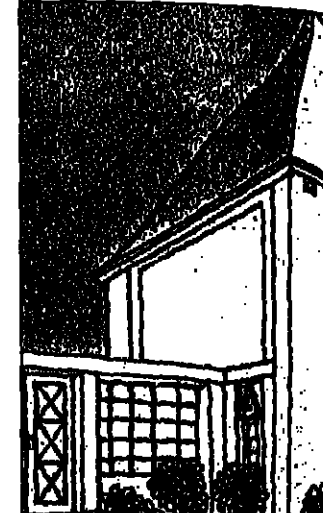
Europe in the eyes of the intellectuals who witnessed his crimes and survived his fall.

In "What is literature?" (1947), Jean-Paul Sartre stated that after the war neutral words like "collaboration" or "Europe" became derogatory, or even taboo. In "Europe", Sartre says, "you can hear the sound of the boots of Nazi Germany". Europe "used to refer to the geographic, economic and historic unity of the old continent. Today it conveys an odour of servitude and Germanism".

On behalf of an ethnically pure and united Europe, Hitler and his friends wanted to destroy the humanistic tradition, the idea of culture as an independent realm distinct from *Folkgeist*, an idea which appeared in Europe as recently as the Renaissance. He did not succeed completely but, paradoxically, he distracted a number of intellectuals from this tradition by making the very word "Europe" sound aggressive, racist and dangerous, and



Stoclet Palace by Hoffmann.

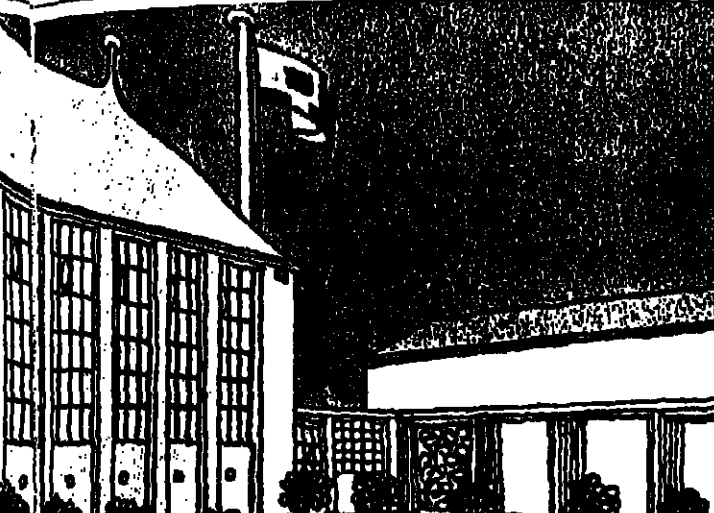


Emil Hoppe, postcard of Josef Hoffmann's

is no such thing as a European being.

Benda's claim, then, is that Europe is defined by the difference between culture and *Folkgeist*, culture that is never to be identified with the genius of a nation, of a people, of a community, or of a continent, but culture as an independent realm, an autonomous field. Benda's "Republique des lettres" is inhabited by individuals, and this exhibition in Paris focussed on men and their work which were totally rejected by the healthy majority of their own people.

The Parisians responded in their thousands, waiting for hours for the privilege of seeing "L'Apocalypse Joyeuse, Viennese 1880-1938". Although imported for the most part directly from "Traum und Wirklichkeit", the exhibition originally organised by Hans Hollein and held in Vienna last summer, in Paris no sense of the "Manichaeic extravaganza" remained. Paris obviously could not



perforation for the 1908 Kunstschau.

provide Klimt's *Beethoven* (frieze, the temporary reconstruction of a Hoffman-designed room, and the lavish display of Vienna had to be replaced by a wealth of graphic material, publications, prints and drawings. The most notable addition was the presence of Alfred Kubin, best known beyond the German-speaking world for his illustrated fantasy novel *The Other Side* (1909). The horrors of the First World War were no doubt only the prologue for the horrors of the future: our past, Kubin's works, displayed in a relatively dark passage, depict the collapse, the total negation of all values in the practical sense rather than in Nietzsche's refusal to conform.

In Paris, coming as it did in the wake of "Paris-Berlin", "Paris-Moscow", "Paris-Paris", this exhibition saved the organisers at Beaubourg the burden of organising a "Paris-Vienna" from scratch, but as one reviewer put it, it avoided confronting what Pierre Boulez had

the courage to state most openly: the ignorance, the disdain, if not the arrogance of Paris towards a Mitteleuropa conceived of as "dark, tortuous, excessive, irrational".

Of course it helps to remind us of the immense influence Paris exerted over Vienna. Klimt's drawings owe much to those of Rodin, whose *Balzac* and *Bourgeois de Calais* were exhibited at the 1901 Secession following a revival of sculpture in Prague. Rainer Maria Rilke's series of lectures on Rodin were most influential — another connection is demonstrated by the bust of Mahler executed in 1911. Yet despite the overwhelming evidence of this influence, there was relatively little on the subject in the catalogue and even less in the exhibition. It is extremely difficult to demonstrate or to portray cultural intercourse between cities in any depth via exhibits alone, and the huge Salon painting by André Brouillet of Dr Charcot's hysteria demonstration no longer satis-

Exhibitions



Wittgenstein house interior.

fies a critical eye, nor does the drawing of Freud by Salvador Dali (executed in London c 1938).

Adolf Loos was tremendously relieved to be in Paris in the 1920s, away from his post in charge of public housing in his troubled city where so many of his hopes were unrealised. In Paris he built Tristan Tzara's house in 1927 and planned the difficult conversion of an existing building into what was to be Josephine Baker's Paris home. He was moved as much by



Josephine Baker's house, designed by himself, at Kudmürgasse, Vienna, 1928.

Josephine Baker's dancing as by French neo-classicism and the works of Auguste Perret — Loos' tastes, diverse rather than simply eclectic, combined in both his theory and his practice with extraordinary richness.

In the month preceding the Vienna exhibition, Luciano Semerani contributed an unusual installation in the "trou" of the ground and lower ground floor for the CCI (Centre de Création Industrielle). "Les Bateaux blancs" introduced the Parisian public to Trieste as a

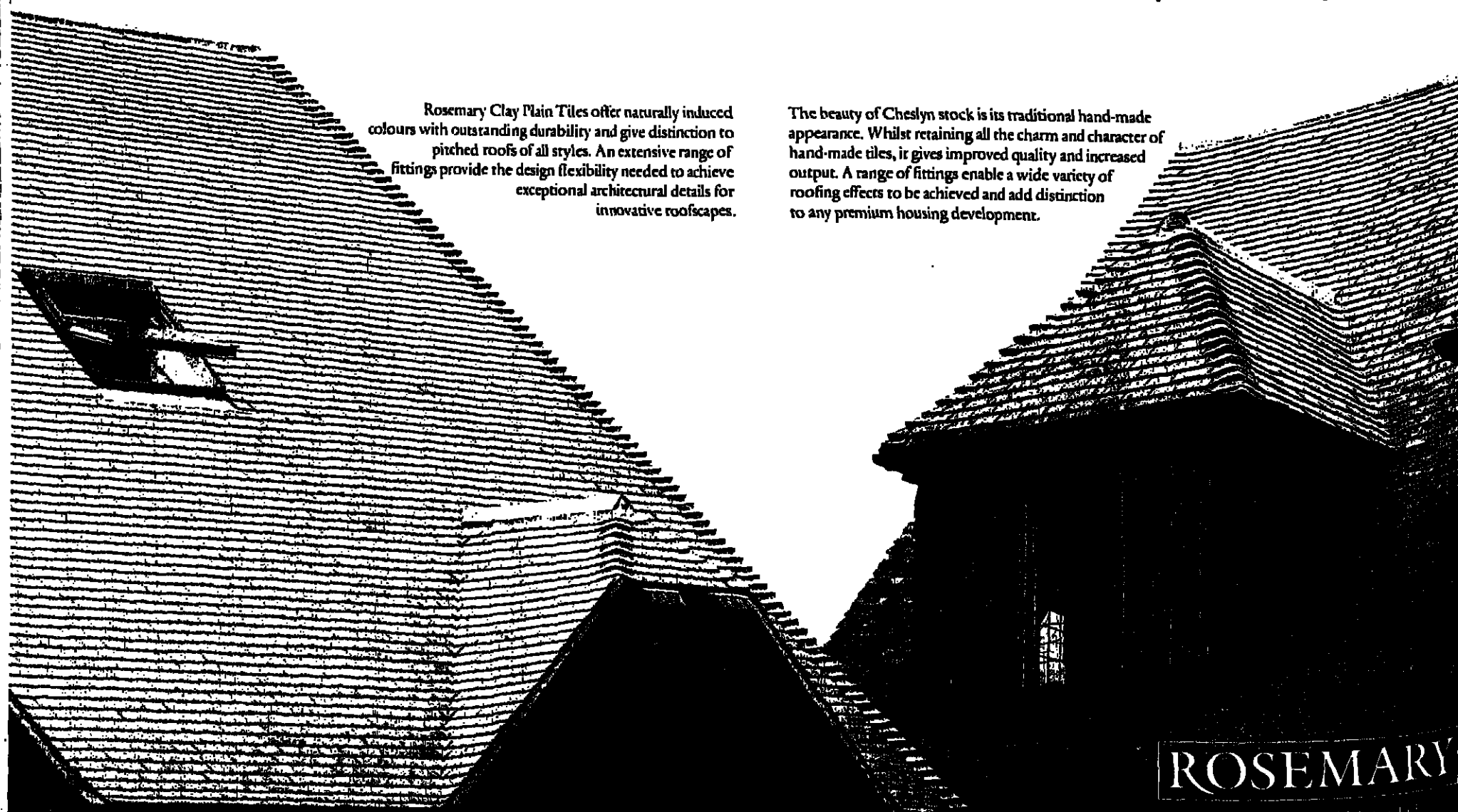
city which manufactured ocean liners, whose opulent and nostalgic interiors created their own dream world for a decaying elite.

During the run of "L'Apocalypse Joyeuse", Boris Podrecca designed and installed an exhibition of the work of Jose Plecnik (1872-1957). Plecnik was responsible not only for remarkably individual buildings in Vienna and Prague, but conceived and executed a master plan for the city of Ljubljana. Besides the contact with the founders of the Modern Move-

ment that is demonstrated in this remarkable display, one sees Plecnik's integration of Camillo Sitte's idea of place in the city.

Semerani and Podrecca, respectively Italian and Viennese, although both with a Yugoslavian background, recall the sphere of Viennese influence beyond Austria. Both exhibitions were additional celebrations of the long-forgotten world of Mitteleuropa, finally resuscitated at Beaubourg this spring.

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Osaka Kokochika's exhibition poster for the 1908 Kunstschau.

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Books

Fading glory of Belsize

By Tony Aldous

Belsize Park: a living suburb, 64 pages plus 24-page insert. (Available from Belsize CAAC, 10 Lawn Road, London NW3 2XS, £2.80 including postage.)

BELSIZE Park has been called "the poor man's Hampstead". If that is true, then poor men are getting richer, and more talented — and have been for some time. Its architectural population includes three RIBA Gold Medallists — Stirling, Rogers and Foster — as well as (among many others) Sir John Summerson and Robin Spence. But if its residents have grown richer, its architecture — despite the efforts of the Belsize Conservation Area Advisory Committee

— is becoming alarmingly impoverished. Belsize's glory — and its weakness — is stucco. From the 1850s onwards, builder-developer Daniel Tidey and various successors laid out the Belsize area with streets of villas and terraces, with porticos, cornices, balconies and other features whose decorative quality depended on stucco — and therefore on effective maintenance, with scrupulous insistence on retention of its detail.

In the 1980s adequate maintenance is all too often lacking, and the planning authority, Camden, appears to lack the resources, or the will, to ensure the required attention to detail. This sad state of affairs is vividly catalogued in *Belsize Park: a living suburb*. Published by the Belsize Conservation Area Advisory Committee, originally to accompany a splendid but all too short-lived exhibition at Hampstead Town Hall, this is a very worthwhile publication in its own right.

It begins with an introduction by Jake Brown, followed by contributions from (among others) Summerson (Belsize 1780-1870), Andrew Saint (1870-1914), Jack Pritchard (on the Wells Coates flats in Lawn Road), and Robin Spence (on

Sir John Summerson's house right-hand side of this early semi villa.

his single-storey courtyard house in Belsize Park Gardens). But the most telling contribution is arguably from Leon Krier, under the title "Looking after what?"

"I notice," he writes, "to my continuous astonishment that when a traffic refuge gets damaged, a road gang will be round in less than 24 hours to restore it. But should one of the bronze candelabra of Regent's Park Bridge be stolen or a charming fountain at Primrose Hill be vandalised, it will take years for the damage to be officially registered and, unless protest letters are written by residents, the fate of beautiful street furniture is often sealed. Usually it vanishes — and rather than being restored or recovered it is replaced by inferior objects which happen to be on the market."

If that is true of street furniture, how much truer of the stucco details which individually are enjoyable but cumulatively give the area its overall quality. "The streets and squares of conservation areas," writes Krier, "rarely escape the damage caused by either enforced public penny-pinching or ruthless speculative development."

What ought to be crisp is blurred; what ought to be intricate and delicate is eroded or flattened out of existence. His acid but accurate sketch, "The Changing Belsize Orders", pinpoints one area of acute architectural degeneration.

Leonie Cohn, member of the Belsize CAAC and editor of *Belsize Park: a living suburb*, believes Camden council is in a number of respects to blame. It does not sufficiently enforce those quality standards which are open to enforcement; does not offer the modest but often

crucial grants which can encourage proper repair and reinstatement of decorative detail; and has not put enough effort and resources into education to counter ignorant repair and alterations. The point is not that Camden is against conservation — it clearly isn't — but that, like many councils in these straitened, ratecapped days,

it gives it a low funding priority. Yet the maintenance of architectural character has cash value. Well-maintained and scrupulously repaired stucco; conversions which show understanding of and respect for the character of buildings; use of correct or at least appropriate materials — all these give cachet, and cachet supports and

promotes property values. So the property owner who repaired window surrounds at the corner of Englands Lane and Primrose Hill Road with bland flat strips where there should have been elegant and complex mouldings, was really not being very clever. If he continues the process on other buildings adjoining, he may be saving at most hundreds of pounds now, at the expense of foregoing thousands in capital appreciation later.

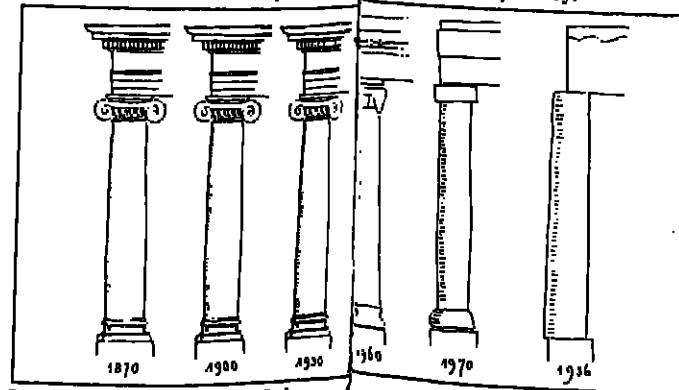
The council, for its part, should have enough fire-power in its conservation team, and enough grant aid up its sleeve, to have got the first repair done properly, setting a standard that others would know they had to follow.

I said Camden was not anti-conservation, but some of its councillors are. There is an influential minority who, if they thought they could build local authority flats on the sites, would have half the Belsize conservation area tomorrow. The political tug-of-war inside committee and council leads to some odd results. In Haverstock Hill, Nos 114-116 are a pair of Classical stucco villas, bought by Camden for demolition in the 1960s; reprieved after a public outcry including a 3,000-signature petition; then the subject of a study by Darbourne & Darke which recommended restoration and conversion into flats. By then, of course, the money had run out.

Fifty yards further down the hill are two more surviving pairs of villas. In one, Camden has allowed squatters — who had protected it from vandalism and arguably saved it from possibly fatal fire damage — to form a housing co-operative, "Belpark 1", which is now restoring the



Belsize House, 1780-90, print from Camden local history library.



Leon Krier's changing Belsize Orders.



Stucco mouldings need regular, properly supervised maintenance.



The "rationalised" repair on the right destroyed the block's character.

Books

building and converting it into flats, using Housing Corporation money.

Squatters in the second pair have also formed a co-operative, "Belpark 2", which wants to do likewise. Camden for some reason jibs. It wants to do the job itself, but hasn't the money. So the building, despite the squatters' best efforts, continues to decay. Next door Belpark 1 shows how housing and conservation, acting together flexibly and sensibly, can achieve both sets of objectives.

The exhibition "Belsize Park: a living suburb" also has a wider message: that the positive management and daily care of conservation areas (which the Civic Amenities Act 1967 envisaged as being as important as statutory control) is languishing for want of resources and because it all too often has low political priority.

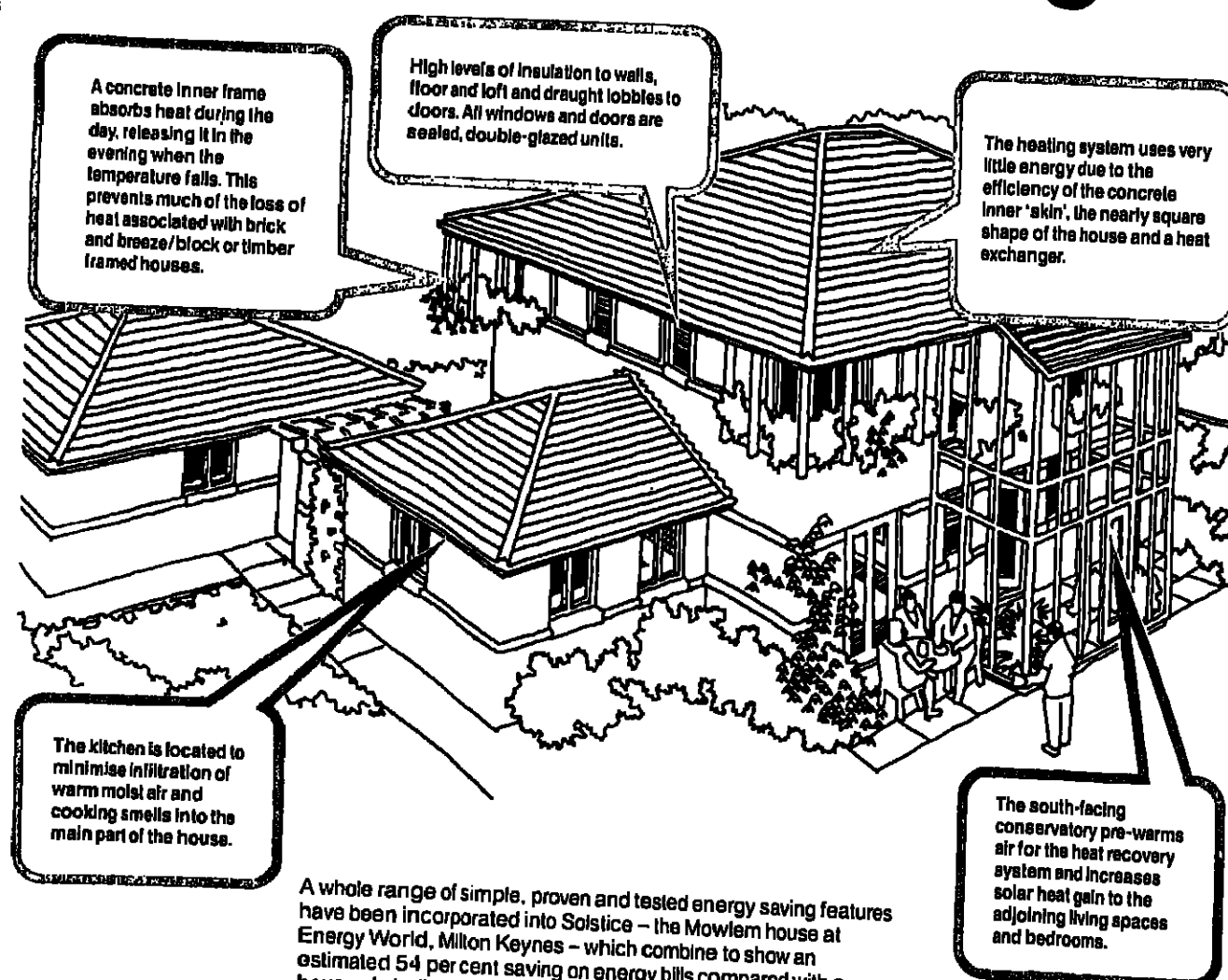
The exhibition — which has been carefully stored — deserves a national showing, in some central London location and possibly also on tour. The admirable book which goes with it is, meanwhile, still available and makes compulsive reading for anyone interested in how a community of people and a community of artists grew up together.



Belsize Ionic order porch as it should be.

Builder's rationalised order.

Energy saving needs engineering



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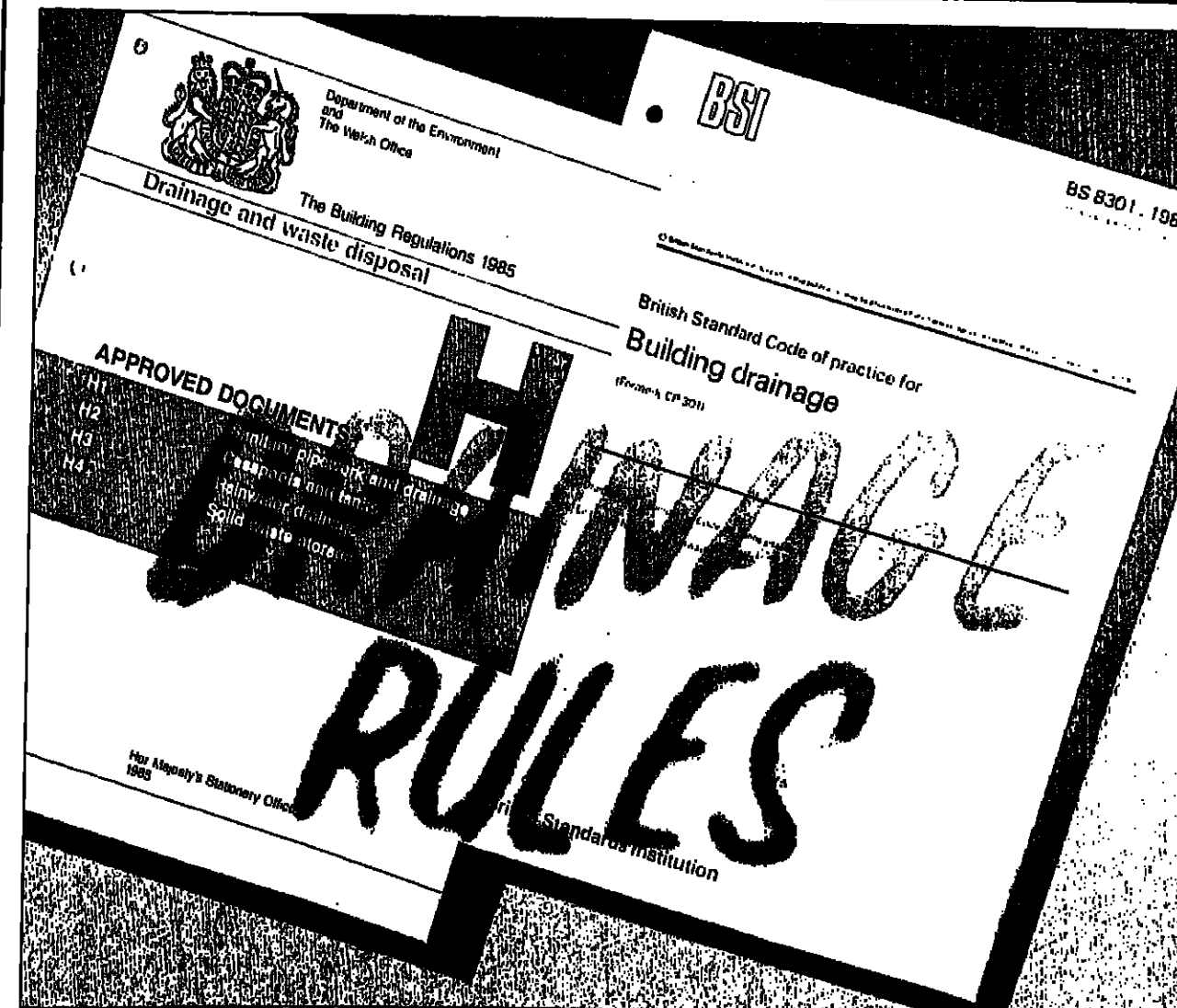
The extensive engineering expertise of the Mowlem group, one of the UK's largest construction companies, and experience of building low energy housing for the Pennylands project at Milton Keynes in 1979, have been utilised to design and build this quality four-bedroom house.

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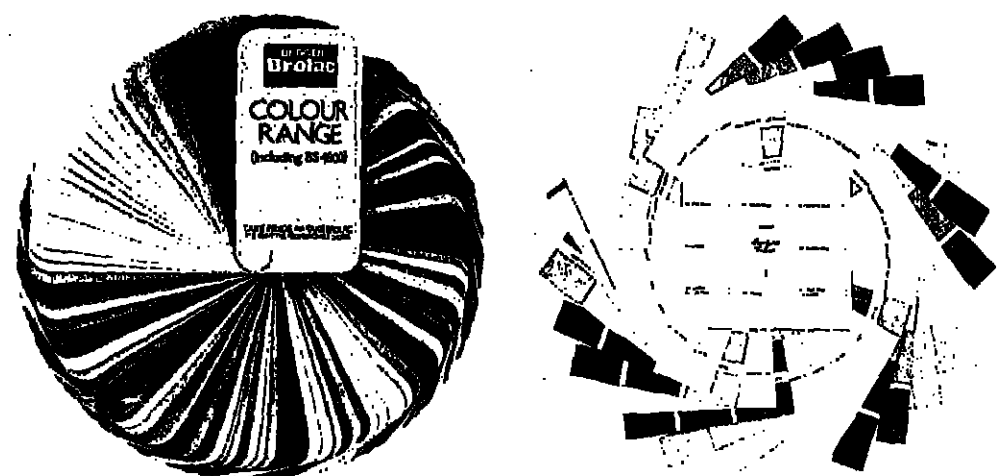


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New Products

Compiled by Harold Hudson

Fixings company set for major comeback

WHEN British Screw and Linread Fabco were acquired by SFS Stadler in 1984, a new British fastener company was created. This is a fair summary of the situation despite the fact that it became part of an international group with its headquarters in Switzerland and with operations spanning six countries. SFS Stadler at least retained a British manufacturing presence - the old British Screw manufacturing plant at Leeds, which forms a vital element in SFS Stadler's international strategy.

The takeover of the Leeds plant has opened up levels of investment undreamed of under the previous management. What is more, a little under 50 per cent of SFS Stadler's UK sales are manufactured in the country - a fact which cannot be claimed by many other companies trading in similar fixings in the UK.

SFS Stadler is building on British Screw's sales expertise and the British company is now plugged into a European range of fixing experience and an extremely strong R & D department at the Swiss headquarters, which makes it a real force to be reckoned with in cladding and roofing fixings.

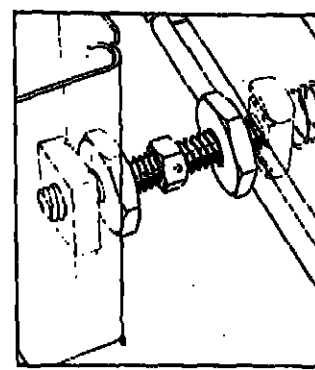
Specifiers, no doubt because of the many other things on their mind, do tend to pay rather less attention to fixings than they perhaps should. Representing between one and two per cent of the roofing costs on the average industrial building, fixings should be considered with care because a fixing failure means disaster for the roof as a whole. Specifiers therefore should take care of such insidious points of weakness, like the danger of shank corrosion due to condensation. In such cases, advice might be well what is needed, and SFS Stadler is in a position to provide such advice.

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If you would like more information on the products on these pages, fill in and return the pre-paid enquiry card.

Concrete fixing

CLAIMED to overcome all the problems associated with dimensional site inaccuracies when fixing precast concrete cladding panels, the Flexifix from Unistrut consists of two concrete inserts (one set horizontally in the frame of the building, the other vertically in the concrete cladding). Where the two cross, the Flexifix connector is installed. This gives a 95mm diameter within which the fixing can be positioned.



Enter 101 ON EXPRESS ENQUIRY CARD

Electric shower



COMPLETE with an economic power selector, which gives a choice of 7kW or 4kW settings, the Escort 7kW instantaneous electric shower pack from Valor Electrical has several of the features of more expensive units. These include a flow stabilisation valve, a safe splash-proofed heater that can actually be mounted in the shower enclosure and a five-year guarantee option. The Escort, which replaces the Gainsborough Consort model, has been approved by the Electricity Council.

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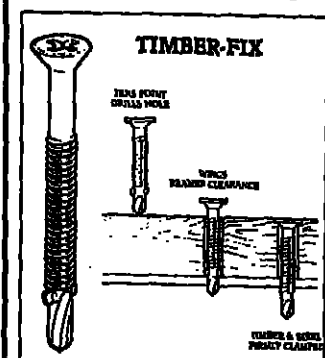
Composite fixing

PARTICULAR problems associated with the fixing of composite components, like stripping through the roof sheeting by over-tightening or jacking apart of the elements of the composite, have, it is claimed, been overcome by the new Spedec SDC self-drilling composite screw from SFS Stadler. Consisting of two threaded areas on this shank of the screw, the upper, larger thread compresses the roof sheeting against the stainless steel bonded WRS washer with an EPDM seal, which is extruded into the threads of produce a weathertight seal.



Enter 103 ON EXPRESS ENQUIRY CARD

Thicker fixing



WING Tek's self-drilling screws, from Builders, have proved so successful for fixing timber, plywood, chipboard and similar materials to metal, that the range has been extended to permit the fixing of materials from 6mm to 100mm thick to steel up to 12.5mm thick. WING Tek's installation is one swift and simple operation. The 'wings' rear a clearance hole in the wood, but break off when the steel is engaged, thus allowing the threads to cut mating grooves.

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New products

Conservatories

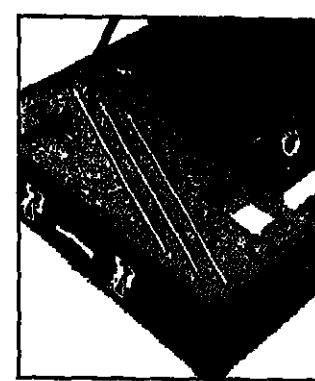


LOW cost, rapid construction, efficient passive solar recovery and low maintenance costs - these are some of the advantages claimed for Amdega conservatories. They are made from a combination of standard modular units, combined with purpose-built sections, to give an infinite variety of computer-aided designs. Construction is of rot-resistant western red cedar and a range of detail design options are available. Double-glazing is fitted as standard.

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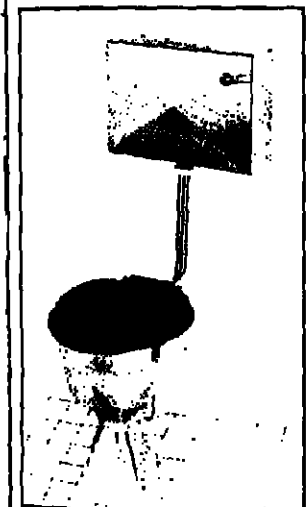
Remote inspection

SAID to be a new concept in remote visual inspection, offering versatility and cost-effectiveness, the Multi-Scope system from KeyMed Industrial is a kit consisting of a KLS-301 light source and light guide cable, a single bore scope handle and control body together with a range of shafts, all packed in a robust carrying case. Compared with the equivalent bore scopes, the Multi-Scope system is said to be more compact, lighter in weight and costs significantly less.



Enter 106 ON EXPRESS ENQUIRY CARD

Approved wc



SANTRIC has announced that its new stainless steel wc pan and cistern has received Water Research Centre approval. This includes approval of its general operational flushing efficiency as well. No BS exists for stainless steel wc pans, but the Santric design, with regard to bowl profile, waste trap design and dimensioning, is based on the BS for ceramic pans. Although there are three model variants, each has its bowl and trap constructed of identical pressings.

Enter 107 ON EXPRESS ENQUIRY CARD

Uplighter

LIGHT, tough and easy to fit, the classic uplighter from Glaxide is ideal for use in areas where more delicate wall fittings could get damaged. Designed for single 40W GLS or PL11 fluorescent lamps, the Classic can also accommodate low-voltage emergency lighting to comply with the safety regulations. Internally it is finished in aluminium for maximum reflection; externally it is self-coloured in white, or finished in a range of standard colours. It can be site painted, if desired, to match the room decor.



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Water heater

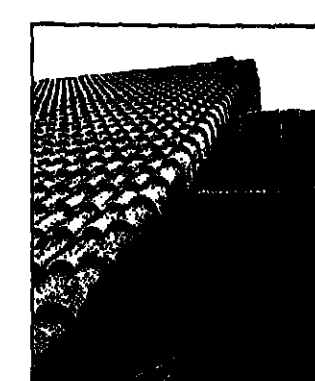


DRAWING upon more than 60 years of experience in the manufacture of electric water heaters, IM Santon has introduced two types of Novasyst electric storage water heaters for over-sink applications. Model JM has a built-in adjustable temperature control, while Model J is an open outlet heater similar to standard over-sink heaters. Both are available in 7 and 12-litre capacities and supply water through a swivel outlet.

Enter 109 ON EXPRESS ENQUIRY CARD

Verge tiles

DESIGNED to take most of the guesswork out of the tiler's operations when gauging out a new roof, Marley Roof Tile's new Rake Verge tile overlaps the adjacent row of tiles and can be installed without the need for half tiles. Both right- and left-hand versions are available in a choice of two profiles to fit the most popular Marley ranges of interlocking tiles. A purpose-made clip provides a secret fixing.



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OFF-THE-PEG CONDUITS

WEEKS can be sliced off civil engineering contracts, it is claimed, when off-the-peg reinforced concrete conduit segments from Matiere are used. Multi-arch designs have also been developed and the largest rings now offered have cross-sectional areas of 80sq m. Used as water tunnels, or as crossings under major roads, these conduits are each made up of three or four easily-transportable segments. British contractors can licence the moulds to manufacture the rings from the French company, Matiere.

3.2, the segment rings are oval with flat bottoms. Standard cross-sections range from 3 to 80sq m, lengths from 2 to 4m and segments can be curvy overburdens up to 12m.

Installation requires only four men and a mobile crane. Segments slot together and the stability heels of the side walls remove the need for bulky supports during installation. The system contains a quick waterproof jointing system.

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The Project is taught on a tutored, distance learning basis, comprising about 100 three-hour packages over a one or two year period. The packages are available as an entire project or individually depending upon a student's requirements.

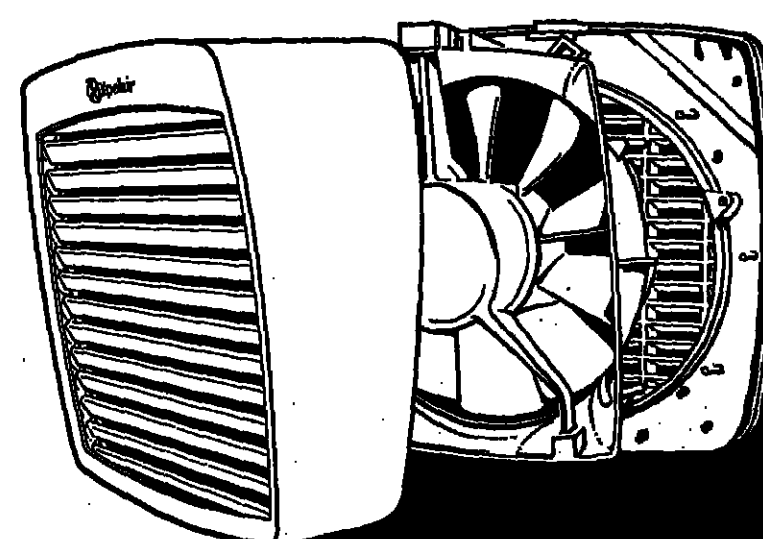
Students are now being recruited for this exciting, new educational concept, and enquiries from Employers are particularly welcome.

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BIAT

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Timbers in the round

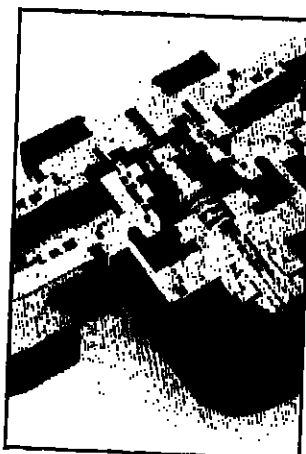
SMALL diameter, low-cost timbers (often referred to as forest thinnings) are used in a new roof design developed by the farm buildings development centre of ADAS, the advisory service of the Ministry of Agriculture. A prototype of the concept has been constructed on one of the ministry's experimental farms. The new roof system depends on the successful connection of the individual timbers. This is done using a new technique using wire binding, developed by the University of Delft. Rentokil's waterborne CCA preservative, Celcure, was used to treat the timbers.



Enter 112 ON EXPRESS ENQUIRY CARD

Showers

COMPLEMENTING established Maynell Showers ranges of Blendmix Thermostatic and Blendmix manual showers, the new Victoria Thermostatic shower from Maynell features a large volume output of 2 GPM from a 900mm head. It can even be installed with a mere 300mm head. Supplied in chrome, white or gold finishes, the Victoria has a quick response to water pressure changes to ensure even showering water temperatures.



Enter 116 ON EXPRESS ENQUIRY CARD

Building system

AVAILABLE for use as an agricultural building, Structural Sections' UltraZed 145 building system is based on a 145mm deep zed type section, produced in high-quality pre-galvanised steel. Full-scale testing of this structure has been carried out at Strathclyde University and the performance of the zed sections allows spans up to 6.1m to be achieved under typical loading conditions for Class agricultural buildings. UltraZed systems include eaves beams, rafter/column cleats, purlin and apex ties, side rails supports, diagonal tie wires, eaves braces and a range of filler pieces.



Enter 118 ON EXPRESS ENQUIRY CARD

Detector control



THE search for a control system for fire-detection installations which will be all things to all men goes on. One system that has come very near to universality is the CZ10 Universal control unit from Cerberus. With this it is possible to connect conventional zones of detection, individually addressable detectors and analogue value transmission sensing devices to the one control panel, giving flexibility to cover any situation.

Enter 113 ON EXPRESS ENQUIRY CARD

Sewage treatment



AS a result of 12 years' operating experience, Waterwise Products has introduced a second generation of its package sewage treatment plants. New features of the improved systems include more easy handling and an ability to be extended to cope with increased flow. Enclosed biofilters have gained a reputation for being cost effective and simple to install. Because they do not require drive units, one cause of breakdown is omitted. They do, however, require a small pump for filter dosing. This now backed by a stand-by unit.

Enter 117 ON EXPRESS ENQUIRY CARD

Wave maker



BECAUSE 95 per cent of pool users, according to a report by the Sports Council, go to swimming pools for general amusement rather than for dedicated swimming. Thermalek Engineering Services has concentrated on devising even more creative and exciting wave-making machines. The result is the Bond, which is microprocessor controlled and which can produce different wave patterns at the touch of a button. A 10th-scale working model of this innovation can be seen, on request, at Thermalek's Derbyshire office.

Enter 119 ON EXPRESS ENQUIRY CARD

New Products

Building systems

TWO versions of Omni Structures' lightweight aluminium buildings have been introduced — Super Lightweight with spans up to 10m and Lightweight with spans up to 20m. Either system can be static or crane mounted and is designed for quick and easy erection with a specially developed beam and joint member which allows multi-purpose configurations and alternative eaves heights up to 3m. The outer membrane is lacquered, UV stabilised pvc-coated fabric.



Enter 120 ON EXPRESS ENQUIRY CARD

Map measuring

COMPACT and precision engineered, the new Haft Digital Planimeter, available from Cannon & Wain, allows the measurement of areas with a single tracing around its periphery. The digital display shows the actual area on the ground in correct units and takes account of the scale of the map or drawing. It will calculate the average of a number of readings and can add or subtract from a memory. A battery charger is an optional extra which is supplied with three rechargeable batteries. Interfaces can be connected to computers or printers.



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BESPOKE GARAGES

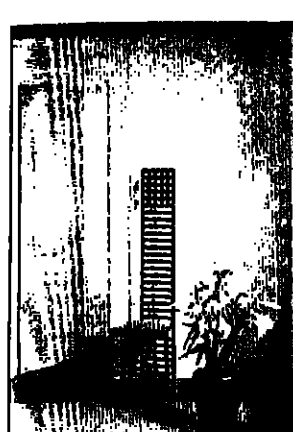
MARLEY Building Products has introduced a redesigned range of precast garages which offer, so the company believes, an unrivalled scale of choice for the customer. This has been achieved by rationalising components, sizes and special features across the four different garage styles available — Classic, Regent, Windsor and Heritage.

Not only can the customer now determine the size of garage he wants, he also can specify the type of roof, the number of windows, the style of door and so on. Wall panels, 2,100mm high have been made standard throughout the range, giving a secure interior headroom; roofs can be mono- or duo-pitched and can even be tile covered; Marleybrick front posts can be added to all models; and there is a huge range of garage door options, including timber, steel and GRP.

Marley's own team of operatives erect the garages, which are covered by a new 10-year guarantee.

Enter 125 ON EXPRESS ENQUIRY CARD

Panel door



IN a one-piece construction which ensures complete stability, the new Classic two-panel moulded internal door from John Carr is supplied in a grain finish for paint application. The realistic raised and fielded panel effect is ensured by a 12mm depth of moulding and doors are available in five imperial and three metric sizes in 35mm thickness. Six of the doors are also available in 44mm half-hour fire door versions.

Enter 121 ON EXPRESS ENQUIRY CARD

Wall plugs

ALL-NYLON and formed with integral and flexible locking lugs, the Type S wall plug from Fischer is said to give problem-free and secure fixings to aerated concrete, wood wool slabs, hollow bricks and blocks or solid brick or concrete. The nylon body of the plug has smooth internal surfaces into which the screw cuts its own thread. Type S wall plugs are supplied for drill diameters from 4mm to 20mm and in lengths from 20mm to 90mm. They have no collars, thus allowing push-through fitting.

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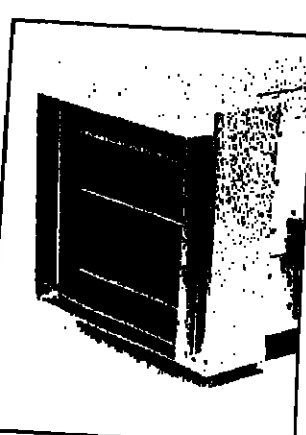
Lifts

BECAUSE it identified a gap in the UK market for quality lifts, Akron Lifts was formed in 1983 to import Italian lifts which are designed and manufactured to extremely high standards. Hydraulic and traction drive passenger, goods, bed and service lifts are included in the range, which also includes enclosures for internal or external installations. With a base in Manchester, as well as a London office, Akron Lifts UK covers the whole country, offering prompt delivery, technical back-up, 20-hour call-out and maintenance service.

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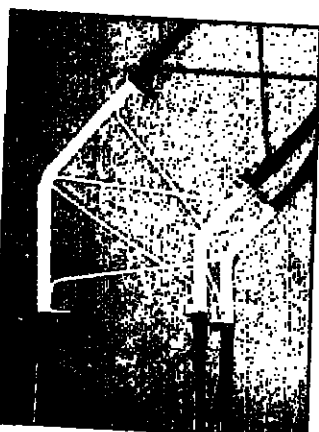
Dampers

SMOKE-SEAL is Waterloo Air Diffusion's new Series WSD range of combination fire and smoke dampers. Positioned within ducting to prevent the free passage of fire and smoke, these devices can have 10 forms of control from the basic manual resetting version to the advanced remote setting and closing model. The dampers satisfy the requirements of ductwork specification DW142 classes A-D, have a two-hour fire rating and have been tested to four hours.



Enter 114 ON EXPRESS ENQUIRY CARD

Space frame



STRUCTURA is a metal space frame system from C&R Lighting which is particularly appropriate to exhibition and display application. Heart of the system is the exceptionally strong, yet lightweight, triangular beam consisting of 14mm diameter tubes. This is capable of free floating for up to 10m without vertical support. Varnished with resin based powder paint, the beams are supplied in four standard colours — a chrome version is available on request. The system has been designed to complement the extensive Altalite range of luminaires.

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Commercial valve

DESIGNED to put up with the rigours of use in commercial buildings, the new RA 2000 thermostatic radiator valve from Danfoss combines accuracy, efficiency and strength. It meets the requirements of the new Building Regulations and is ideal for upgrading the control of internal temperatures. The RA 2000 can withstand 2.5 times the rotational torque requirements of 7Nm for the temperature selector, now required by British Standards.

Enter 126 ON EXPRESS ENQUIRY CARD

Copper shingles

SELF-adhesive bituminous shingles, coated with copper foil which weathers just like copper roof sheeting, have been introduced by Onduline to its hardline range. Durability and ease of installation are the two major features of these new shingles. They require a smooth lightweight deck, laid to a pitch as little as 12 degrees. They are made of a strong base of glass fibre covered with a bituminous aggregate.

Enter 128 ON EXPRESS ENQUIRY CARD

Commercial control

DANFOSS has introduced a new micro processor based, 24-zone, programmable commercial heating control system — the RPS 2024 — which provides room temperature set-back and optimisation, and will interface with radiator thermostats, weather compensators, lighting systems, fans, valves, pumps etc. Trials of the new equipment have been successfully completed in Denmark and now the RPS 2024 is being introduced into this country, first of all in the South-east.

Enter 127 ON EXPRESS ENQUIRY CARD

Rainwater outlets

FOR more than 30 years Fulbora rainwater outlets have been in use. Now the up-to-date versions of these will be on show at the Manchester Exhibition Centre on the Fulbora stand, along with ceramic wall and floor tiles and the Fulbora PVC Coping. This latter system is a protective capping for parapet and inclined walls, as well as gables. Supplied in widths of 127, 254, 305 and 343mm, these coping units come in white or light grey, with special widths and colours available to order.

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ABC

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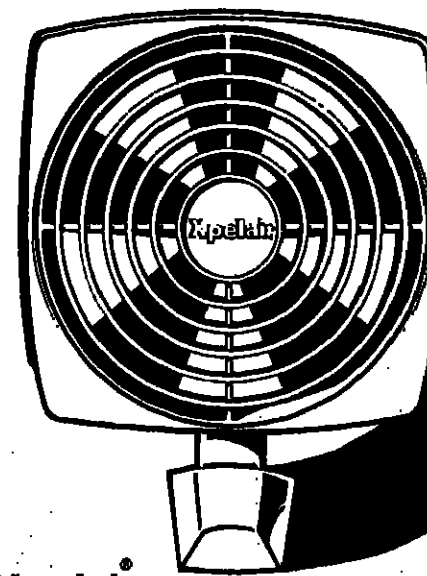
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BUILDING DESIGN Interior Supplement

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e@act. (igz-) a. Precise method of heating given space. Responsive, providing warm air where and when needed. Heater capacities ranging from 1kW to 6kW.



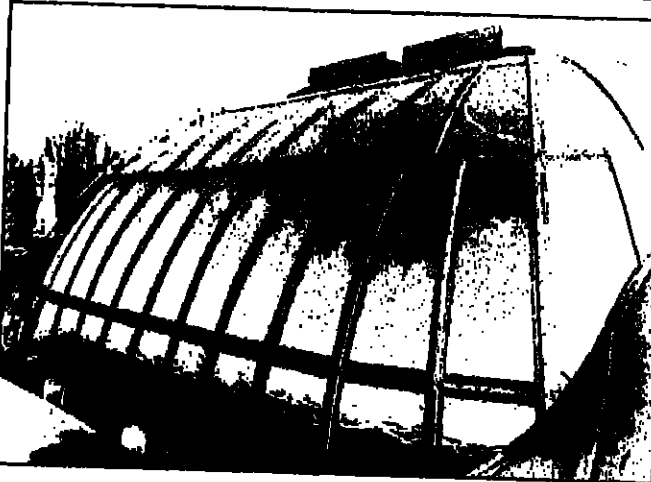
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Products in practice



BLACK-OUT TALE

ANUGRAHA conference centre on the edge of Windsor Great Park had a problem concerning the striking domed glass roof over its impressive Great Hall, a meeting room seating up to 400 delegates in a circular auditorium. Originally it was intended to control light transmission and solar gain by photosynthesis techniques, but eventually it was decided to black-out the whole dome with 400sq m of IBS Mastip from British Siskraft. This was fixed to glazing bars with pvc tape and silicone mastic. Despite being a temporary action, after two years the arrangement seems entirely successful.

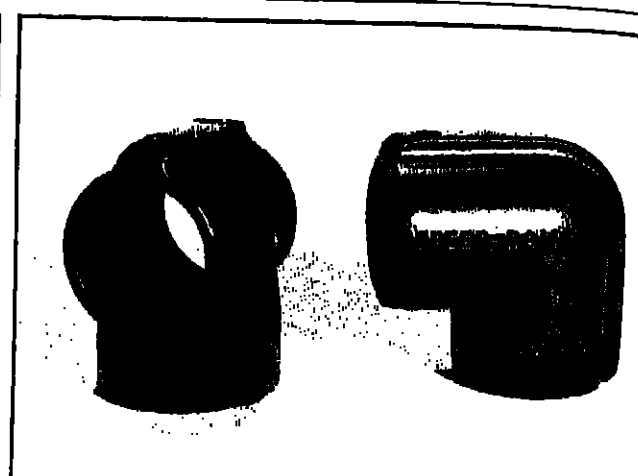
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ARCH CLADDING

LIGHTNESS and durability — these were the two qualities architects William Walker Partnership of Bradford were looking for when they selected 4mm thick Eternit 2000 Glasal, from Eternit TAC, to clad the pedimental arch of the porte cochere of Wakefield's new Cedar Court Hotel. Colour stability of Glasal is guaranteed for 25 years by the company and the weight of the material is only 7.4kg/m². The arch forms the centre piece of the project, set on artstone columns and with the Glasal panels cut into the form of voussoirs and a keystone.

Enter 131 ON EXPRESS ENQUIRY CARD



INSTANT SUPPORT

AFTER initial trials at its Shepherds Bush Centre, Speedrail from Hollander Rainer is being used by BBC studios throughout the country. Speedrail's aluminium-magnesium fittings slip on over matched aluminium tubes and are secured by stainless steel set screws. More than 50 different fittings are available in six sizes from 12.5mm to 50mm OD and the BBC use the system to create support structures for sets and lighting which can be rapidly erected and dismantled. In fact its speed of use was one of its attractions for the BBC; others included lightness, strength and re-usability.

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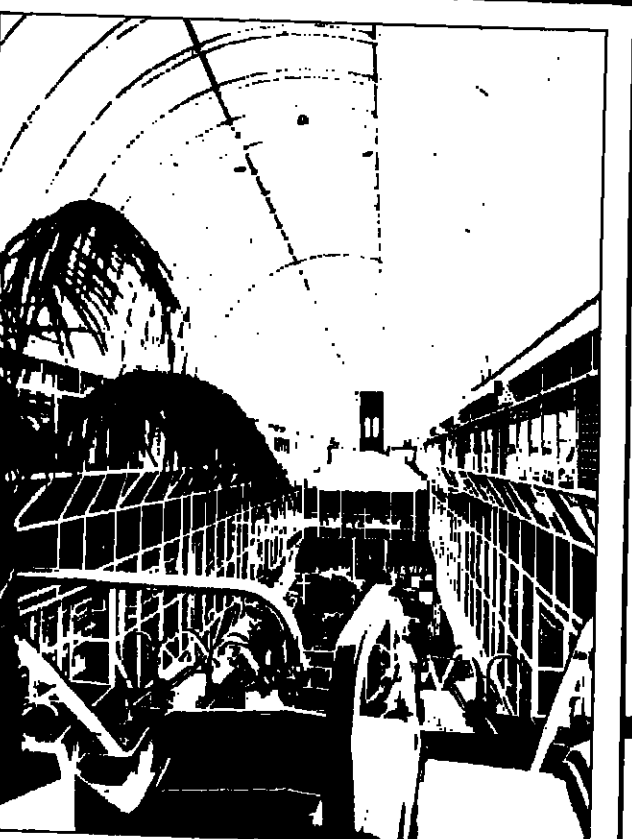
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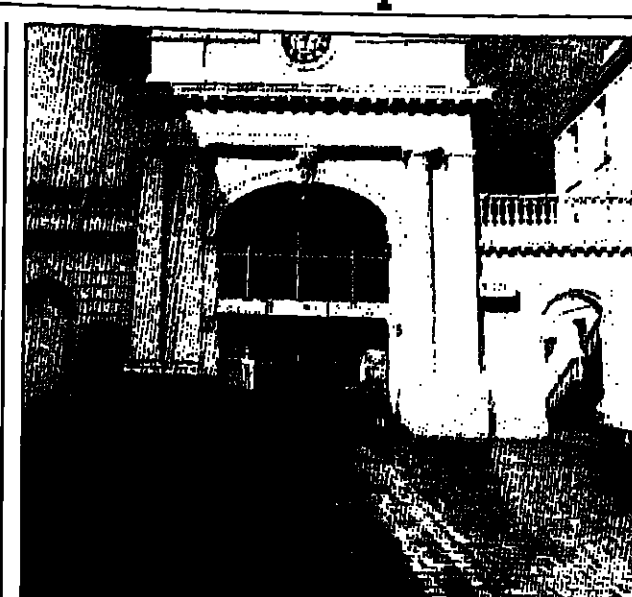


CONTINENTAL DEBUT

FOLLOWING the formation of PRL Benelux, the continental company of Don Reynolds operating in Holland, Belgium and Luxembourg, the first project using Reynolds' curtain walling has been completed. This consists of a striking entrance/reception area to a building for S&S Co at Durne. An important feature of the system (and one which has been appreciated on the Continent and officially tested by the Dutch TNO Institute) is the use of Dow Corning coloured silicone

compound, fabricated into gaskets to provide the prime seal to the facade.

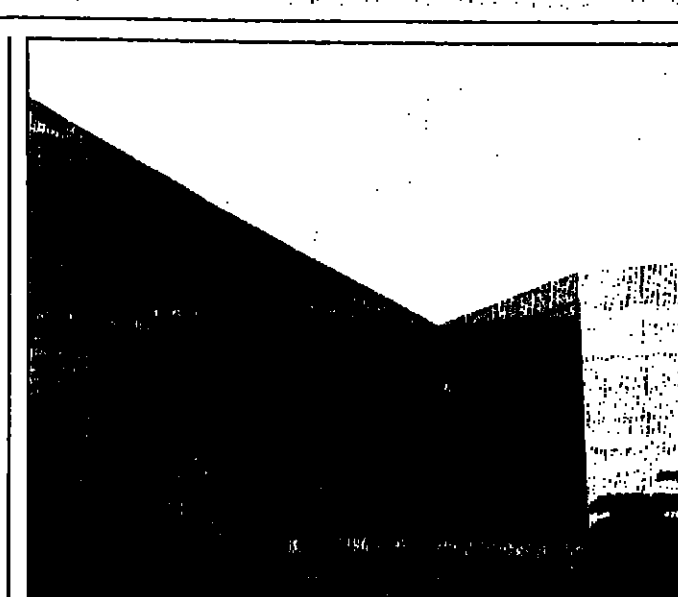
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LONG-LIFE FINISH

PRELIMINARY tests were carried out before a final decision was taken as to what treatment should be used to protect the walls of Glasgow's listed Meat Market building. Finally Donald Macpherson's Powerkote was selected by the city's direct works department. This is a long-life exterior finish which is vapour permeable, allowing the wall to "breathe" while prohibiting the entry of liquid water. Its solvent soluble resins achieve excellent adhesion by penetrating the wall.

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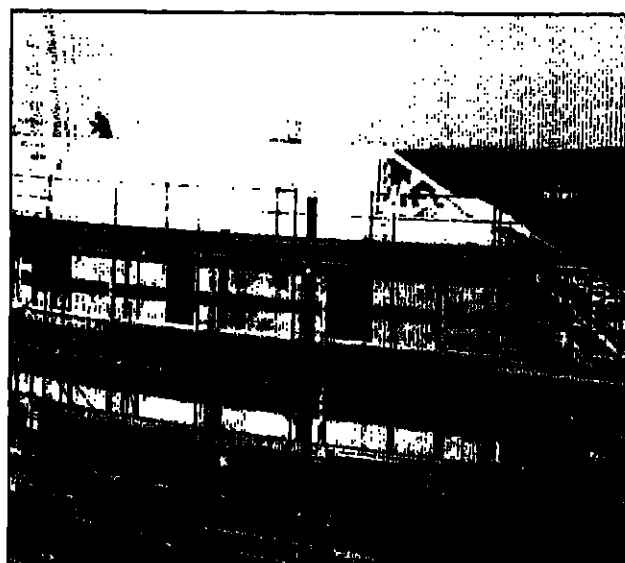


GLAZING

STATES technology brought to Europe has resulted in the sleek, crisp lines of structural silicone glazing being used on the new Zwolsche Algemeene building in Nieuwegein, Holland. An estimated 3,000 buildings in North America have been constructed using these techniques. In the Dutch example, 8,500sq m of glass are held in place by Structural Silicone sealant from Dow Corning and the overall cost is estimated to be no more than steel cladding. Glasswall Systems is offering SSG systems in the UK,

the system having been modified to suit European markets.

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LOW-ENERGY ROOFS

LOW energy-use was a primary consideration of architects Taylor Young & Partners in their design of Phase 1 of Oldham & District General Hospital. As a result, Durox Reinforced Units' aerated concrete planks, 200mm thick and 600mm wide, were used to construct the roof and mansards. Most units were 5.4m long and, because of their lightness and spanning capabilities, their use considerably reduced the amount of steelwork required.

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ROOF PARKING

ROOF-TOP car parking places stringent demands on the waterproofing system. As a result, the 1,000sq m car park over the Brighton Presto supermarket was carried out by Briggs Amasco in mastic asphalt to the BS 988/3T specification. A "protected membrane" roof design was used, in which the asphalt was laid over the insulation on top of the concrete slab. The wearing surface of concrete paving was then laid above the asphalt, protecting it from mechanical damage, temperature changes and UV radiation.

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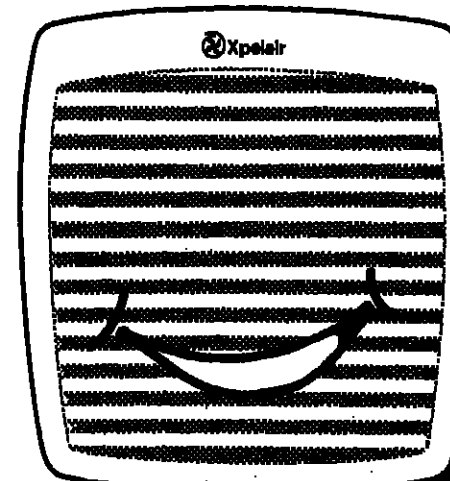


LINTELS AND DOMES

BUCKMINSTER Fuller lives on in Tatsfield, Surrey, where a geodesic house has been built by Nectar Domes. Vital to the construction of this 250sq m luxury house has been lintels supplied by I G Lintels. Designed with thermal efficiency in mind, IG's L1/S80 lintel is used to support the structure's fairfaced brickwork over the front entrance. The lintel used is 2,550mm long and incorporates an expanded polystyrene infill to give a U value significantly less than 0.6.

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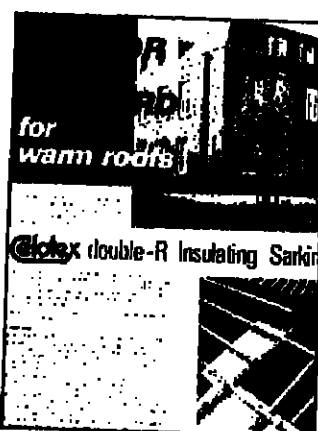
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Technical literature

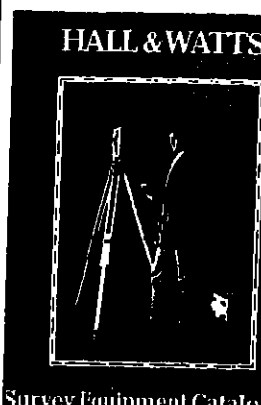
Insulating sarking



CELOTEX has published a two-page data sheet explaining the virtues of insulating sarking and "warm" pitched roof construction. Using its double-R Thermal Sheathing TSI, Celotex points out that many condensation hazards are avoided and there is an automatic increase in the potential habitable space in the building. Thermal Sheathing is a rigid glass fibre reinforced polyisocyanurate foam with high thermal performance and a Class 1 and Class 0 fire rating. It is also approved by all major fire insurers for exposed use.

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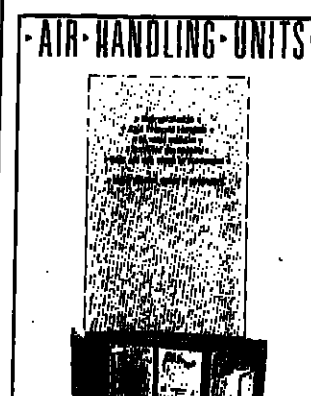
Surveying gear



HALL & WATTS has published a 24-page brochure setting out in detail its range of survey equipment. Spanning from Stolz lasers and Topcon EDM total stations to simple staves, measuring wheels and Planis Planimeters, the comprehensive range is further supported by the sale of reconditioned instruments and a repair and hire service — full details are included in the brochure. Bound into the centre spread is a four-page price list.

Enter 144 ON EXPRESS ENQUIRY CARD

Air handlers



AIRSTREAM Environmental Products has published a four-page leaflet with the object of making the selection of the right size and type of air handling unit easy. This at-a-glance guide gives all the relevant information, such as air volumes, motor sizes, heating and/or cooling coils, mixing sections, filters etc. Standard Airstream air handling units are available in five sizes. They have strong Penta-post framework, guaranteed performance and will meet most applications.

Enter 148 ON EXPRESS ENQUIRY CARD

Joinery

OVER 300 products are detailed in John Carr's new, redesigned 1986 catalogue. These include six new introductions, such as the aluminium residential doors, a range of bi-fold internal doors, a hardwood door pair, the Classique internal moulded door, a hardwood hinged patio door and new stair balusters that comply with the latest building regulations. The comprehensive catalogue gives a complete run-down of Carr's products including windows, doors, and many ancillary products.

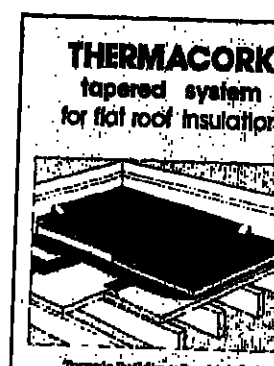
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Tapered insulation

COMBINING the excellent thermal insulation of rigid polyurethane foam and the traditional benefits of cork, Torvale Building Products' new Thermacork tapered roof insulation system is the subject of a new eight-page brochure. For use on new or refurbished roofs, the 900mm x 1200mm boards contain an integral design fall of 1:60 and can be weatherproofed with built-up felt or asphalt. The system is backed by Torvale's technical service, including the provision of layout drawings and a computer.

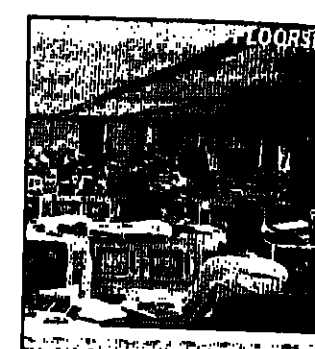
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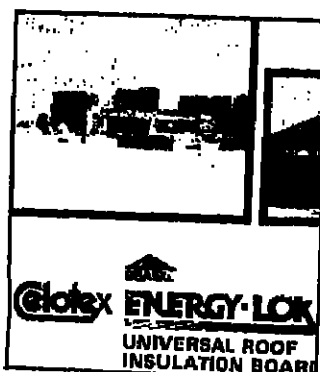
Access floors

LYDNEY Access Floors is the only access flooring manufacturer which has been assessed under BS 5750: Part 2. It has now published a highly comprehensive 10-page colour brochure which gives details of its flooring systems. This will be welcomed by designers and architects as it gives full details of the various types of panel available, pedestals and other support components. In addition, the brochure contains full performance data.

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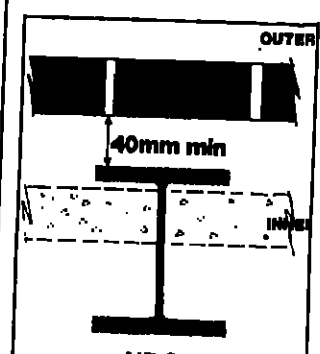
Roof insulation



CELOTEX has published a new four-page brochure which provides the specifier with comprehensive information on the use and performance of Energy-Lok — its lightweight and cost-effective insulation board for flat roofing and other building applications. It comprises a core of rigid polyurethane-modified polyisocyanurate foam with reinforcing tissues of glass fibre embedded in both board faces.

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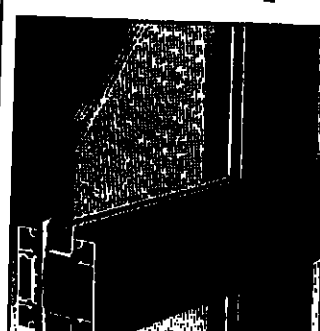
Steel in cavities



INFORMATION on the corrosion protection of steelwork in solid and cavity walls is given in the new six-page leaflet, published jointly by the British Steel Corporation and the British Constructional Steelwork Association. Identifying the most cost-effective ways of protecting steel, this leaflet should prove extremely useful for architects and engineers, both in the design of new work and the treatment of old buildings during refurbishment.

Enter 146 ON EXPRESS ENQUIRY CARD

Information pack



ELEMETA Fyrespan has published a new information pack dealing with its fire-resistant glazing systems. It contains two collections of data sheets; the first section covering the company's systems, the next a series of applications. The three systems involved are the A60 aluminium glazing system, the AFD0 insulated system and the S60 steel glazing system. There is a sheet of Fire facts explaining the criteria for fire-resistant glazing.

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Repair techniques

ANTELOPE Technical Applications has published a six-page leaflet which sets out the various Antel systems for repair and protection of structures. Antel Anti-Carbonation coating has been the subject of exhaustive tests; Antel Q-Mix system is a cementitious repair mortar which can be used with the Anti-Carbonation coating to effect long-term concrete repairs.

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Timber treatments

FOSROC Timber Treatments Division has just published an extremely useful 20-page brochure which makes the case for timber preservative treatments and explains how the Foxroc Protim family fits the bill. It also recommends treatments for redwood and white wood used in various locations. These are compared with BWP and BSI advice and includes a leaflet called Timber and its enemies.

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Roofing

H H Robertson's Q Deck built-up roofing system is the subject of a new six-page, full colour guide. It illustrates the four decking profiles available and gives details of material, composition and manufacture. Relevant load/span tables are included. The guide gives typical weights of various elements and construction and U-values achieved by various specifications. It is a concise, clear and workmanlike document.

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Interceptors

THE new *Specifiers and installers guide* published by ASP Stormflow is intended to provide a comprehensive guide to the selection and installation of suitable Stormflow Bypass petrol and oil interceptors. As current legislation on pollution control and the stringent policies of water authorities concerning oil pollution have resulted in an increasing need for interceptors, this guide is both timely and necessary.

Enter 152 ON EXPRESS ENQUIRY CARD

Domestic windows

STEEL, aluminium and upvc windows for local authority and private housing are the subject of a new full-colour brochure from Ideal Williams. Centurylink 2000 is a range of galvanneal steel windows, available in a range of standard sizes with options for double glazing and polyester powder coating. Centuryglaze windows are standard or purpose-made in aluminium with a number of opening formats. Finally, Ideal Williams has added Centurylite purpose-made upvc windows to its range of material options.

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Drain channels

CONTAINING full details of Drainage Castings' extensive range of Polychannel surface water drainage channels, a new brochure also gives details of the 18 complementary gratings which are available to meet particular BS 497 loading requirements. Installation details and information, which will assist the specifier to select the best channel for the job, are also included. Polychannel systems can cope with special applications and includes a method of preventing unauthorised removal of the grating.

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This Week's Advertisers

The enquiry card between pages 42 & 43 is a simple easy way to obtain information on manufacturers' products or literature in this issue. Postage is FREE and we pass your enquiry on to the manufacturer within 24 hours of receiving it. The number of enquiries and the quality are a barometer for advertisers to gauge how Building Design performs for them. So make sure that any product or service you need information on you use this card.

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Page 42

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Page 32

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Page 24

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Pages 6, 7

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Pages 26, 27

Enquiry no 22

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Page 9

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Page 46

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Pages 36, 37

Enquiry nos 29, 31

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Page 5

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Page 60

Enquiry no 47

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Pages 22, 23

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IMI BRODERICK STRUCTURES
Page 39

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Pages 44, 45

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With experience of design development and production drawings, minimum of three to four years' experience.

Good prospects and opportunities with salaries to match ability and performance.

Please apply, with CV, to Edna King at our St Albans office, Design Team Partnership, The Moulton Hall, 54 Clifton Street, St Albans, Herts, AL1 3RY. Telephone No: 0727 35137.

SENIOR ARCHITECT

Applications are invited from experienced and enthusiastic architects who have the skills necessary to lead a team of six staff engaged in high quality social sector housing and related projects.

The Senior Architect acts as co-ordinator of our in-house Practice and must have potential or experience of creating and managing design and contract programmes.

Salary will be between £12,837 and £14,412.

Application forms and further details are available from LEEDS FEDERATED HOUSING ASSOCIATION at Apsen House, 53-59 Baginbun, Leeds LS9 7DR. Telephone (0532) 458058. The closing date is 22nd September 1988.

L.F.H.A. is an equal opportunity employer and welcomes applications from all sections of the community. This post is suitable for job sharing.

NEETSWORK

RECRUITMENT CONSULTANTS

CONTRACT TECHNICIANS

CENTRAL LONDON RATES £5-10 P.H.

Ring Tim Loftus or Steve McAllister
Tel: 01-838 6994

Grosvenor Gardens House, 35-37 Grosvenor Gardens
Victoria SW1

Ruddle Wilkinson & Partners

Architects • Interior Designers • Quantity Surveyors • Town Planners

We have an exciting, varied and expanding workload and need to reinforce our highly motivated young teams with

ARCHITECTS SENIOR TECHNICIANS INTERIOR DESIGNERS

Please send C.V. to: J.W.F. Durand, Ruddle Wilkinson & Partners, 84 Lincoln Road, Peterborough, PE1 2SN.

TP BENNETT PARTNERSHIP

NEW PROJECTS: NEW TEAMS

The T P Bennett Partnership has new opportunities for self-motivating, ambitious Architectural Technicians who are MBAT with at least 7 years post qualification experience.

Please send C.V. to:

Gordon Bishop MBAT, Associate
T P Bennett Partnership
262 High Holborn
London WC1V 7DU

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London WC1V 7DU

ARCHITECTS

Our Department of Retail Design and Architecture wishes to strengthen its Architectural staff.

We are looking for enthusiastic and committed qualified Architects, preferably with some experience of working on retail shopfitting projects.

As one of Britain's largest retail organisations we offer a challenging opportunity and attractive rewards.

As a member of our architectural and design team you will work on a variety of projects which will involve extensive travel and senior liaison. You will be expected to be self-motivated and able to work under pressure to meet tight deadlines.

We're confident our benefits package is second to none, including a competitive salary.

Telephone or write for an application form quoting Ref. 578 to W. A. Campbell, Personnel Officer, British Shoe Corporation Ltd, Sunningdale Road, Leicester LE3 1UR. Telephone Leicester 877051.

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APPOINTMENTS

ARCHITECTS • ASSISTANTS • TECHNICIANS

RECRUITMENT FOR DESIGN & CONSTRUCTION

1. YOUNG ARCHITECTS - NI & VI practices. Part of Part III & aged up to 30. Phone us ASAP to obtain details & immediate interview.

2. ARCHITECTS WHO CAN MANAGE & DESIGN - our clients in NI & VI need you! We pay up to £17K net. Age preferred 28-40, prospects to Associate level. Phone for details.

3. ASSISTANT INTERIOR DESIGNERS - NI, 3-4 years exp. High class commercial fitting-out. Up to £11K net.

4. SENIOR ARCHITECTS/TECHNICIANS - NI & VI. Needed urgently for busy practices, to be set of teams involved on large new commercial schemes. Age 25+, best rates in London & Home Counties.

5. IMMEDIATE CONTRACT VACANCIES - short & long term for Architects, Assistants & Technicians in London & Home Counties.

79 Buckingham Palace Road, Victoria, London SW1W 0QT. Tel: 01 828 5931

Stern Thom Fehler

requires an ARCHITECT

for a range of interesting commissions in our broad based practice. Applicants should have at least 5 years UK experience.

Our portfolio includes domestic and commercial new building and rehabilitation, community centres, religious buildings and sheltered housing.

Please telephone David Thom or Kevin Fehler to arrange an interview. 80 Cavendish Road, London NW3 2DR. 01-468 7811 or send CV by FAX to 01-468 2876

STOCKPORT

We urgently require Senior Technicians of a high standard to work on a number of "fast-track" projects in the leisure sector. If you have proven technical ability and are a good, quick and neat draughtsman who can work well in a team, then contact us.

Northern Building Design Associates
24-30 Park Lane, Poynton, Cheshire SK12 1RE
Tel: 0625 876637

ASSISTANT TO THE AREA MANAGER

The applicant should have extensive experience of preparation of working drawings and schedules, N.H.B.C. and Building Regulations, and the supervision of residential site work.

Enthusiasm, self motivation and good communication skills are considered essential to this position.

Please write in the first instance with full CV and salary required to:

P.C. Gliddon,
Bovis Country Homes Limited,
77 Nickleby Road, Chelmsford,
Essex CM1 4BG

Bovis Homes is an equal opportunities employer

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P.O. Group

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APPOINTMENTS

ARCHITECTS • ASSISTANTS • TECHNICIANS

TP BENNETT PARTNERSHIP

NEW PROJECTS: NEW TEAMS

The T P Bennett Partnership has new opportunities for Architects with proven design ability and construction experience.

Please send C.V. to:-

Gregory A Gale
T P Bennett Partnership
262 High Holborn
London WC1V 7DU

ARCHITECT

British practice based in Qatar urgently requires an Architect experienced in all fields.

Please send C.V. and photo to:-
ADA, PO Box 1737
Doha, Qatar, Arabian Gulf

ROUND BRITAIN QUIZ...

If we've got vacancies in Herts, Surrey, Essex, Kent, Birmingham, Gwent, Essex, Wrexham, Middlesbrough, Bedfordshire, Wiltshire, Bucks, Sussex, Suffolk, Edinburgh, Hants, Sheffield, Cambs, Greater London, (dozens) plus Bermuda, Qatar and Saudi. If our job file totals several hundreds of temporary and permanent vacancies, from Assistant and Technician to Associate & Partner, if we specialise exclusively in Architectural vacancies, then who do you think can give you the widest realistic and informed run down of opportunities?

Register with us now and find the answer!

RBA Appointments Bureau
64 Portland Place
London W1N 4AD
Tel: 01-580 9387
Official Recruitment Consultancy of The Royal Institute of British Architects

ARDIN & BROOKES & PARTNERS

require in their Putney office

ARCHITECTS & TECHNICIANS

Self motivation combined with job running and site experience. RUCAPS CAD experience an advantage but not essential.

Work includes commercial, industrial and housing. Contact Maurice Rutledge on 01-874 9011 or write with CV to:

73 Upper Richmond Road
Putney
London SW15 2SZ

SHEPHEARD, EPSTEIN AND HUNTER PLC

require a

JOB ARCHITECT

with a minimum of 5 years experience to work on a variety of projects from design to completion.

We work a four day week, Monday to Thursdays.

Please send C.V. to:-
60 Kingly Street
London W1R 6EY

company architect

Oxon £16,000 plus + car

Habitat, one of the UK's most successful retail organisations, is planning to double in size over the next 5 years - adding more sites in edge-of-town and city-centre locations to its constantly developing UK network.

We now seek a professionally qualified architect who, reporting to the Property and Development Director and working in conjunction with a small team, will control all aspects of the construction, fitting out and refurbishment of company property.

Specific responsibilities will include the design and specification of new buildings and refurbished premises; budgeting, cost-control and project management; and the continuous development of shopfitting systems and interior and exterior styling in the context of a progressive, design-conscious retail business.

Relevant experience involving retail premises would naturally be a strong recommendation.

Salary is backed by attractive benefits including employee share scheme, bonus and substantial discounts from all retailers in the Storehouse group.

To apply, please send your detailed cv to Alan Hughes, Personnel Director, Habitat Designs Limited, Hithercroft Road, Wallingford, Oxon OX10 9EU.

habitat

Equal opportunity employer

MARRISON RECRUITMENT LIMITED

46-48 London Road, Twickenham, Middlesex TW1 3RG
Telephone 01-891 0891

We are employment consultants who specialise in the placement of architectural, permanent and contract personnel.

We have vacancies for Assistants/Technicians and Architects in London and Home Counties.

For further details please phone Martin Marston or Karen Spencer.

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WEAVERS YARD 8/7 WEST STREET FARNHAM SURREY GU9 7DN FARNHAM (0262) 716028

Experienced Architect required by a busy country practice to work on a wide variety of projects and able to take responsibility.

MOXLEY, JENNER & PARTNERS

Senior Technicians - with at least 10 years commercial office experience required for production stages of major Thames-side scheme to work in Haymarket & Chelsea offices.

Salary £13,000-£16,000

Write to: Alison Moxley, 1 Hobhouse Court, Suffolk St SW1V 4HH

With a dynamic programme of retail and commercial development

DLGP

require an experienced Job Architect and Assistant Architects

Please send your CV together with details of availability and salary required to:

Christine Harwood
Diamond Lock Grabowski and Partners
12 Sutton Row
London W1V 6AB

The Oxford Architects Partnership

Bagley Croft
Hinksey Hill
Oxford OX1 5BS
Tel: Oxford (0865) 730033

ARCHITECTS

with design ability qualified 3 to 5 years to work in attractive surroundings on the outskirts of Oxford.

Write to or telephone M. J. Drew.

company architect

Oxon £16,000 plus + car

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habitat

Equal opportunity employer

Architectural Appointments

SOUTH COAST ARCHITECTS

Chichester

If you have the experience and ability to run several major housing projects and can start work for this major practice now, then call now and name your price!

Remuneration to £14,000

Two major practices situated in the heart of Chichester are seeking a highly motivated and experienced architect to join their team. The successful candidate will be responsible for the design and construction of a wide variety of housing projects ranging from the recently qualified to those capable of taking on a senior role.

TECHNICIANS

Brighton

An established practice currently requires an experienced technician for a prestigious commercial development project in the early stages of design.

Manchester

Young Technicians where are you? Our clients, including major practices and developers, seek your help in the preparation of drawings and site surveys on a variety of projects. If you want to progress we have the position for you!

Phone Alan Peters NOW for the next step in your career!

* FREELANCE POSITIONS * Top Rates! Start Now!

Anders Glaser Wills

Partnership Consultants
134 High Street, Southampton SO1 0AR
Tel: (0703) 223511

RYDER NICKLIN PARTNERSHIP

Killingworth, Newcastle upon Tyne

require

ARCHITECTS

with general office experience and design ability, and

TECHNICIANS

with minimum 4 years' experience to collaborate within a multi-disciplinary office on interesting major projects.

Applications to:
Northumbrian Way
Killingworth
Newcastle-upon-Tyne NE12 0RT

HUTCHISON LOCKE & MONK

Sheffield

require

ARCHITECTS

with a high level of design and management capability to join our expanding office in the North.

We offer a young and lively working environment with exciting work throughout the country and good career prospects for the right person.

Apply with full CV to:-

Chris Liddle,
Hutchison Locke & Monk,
4 Melbourne Avenue,
Sheffield, S10 2QL.

Computer Aided Design - your future?

Our CAD Department has available the most up-to-date technology, namely a prime 2550 using GDS by ARC of Cambridge. Later this year the Department will be moving to its prestigious purpose-built headquarters in Bournemouth.

The Department consists of small teams which see projects through from sketch schemes through to Building Regulation Approval and continuing expansion has necessitated additional

CAD PROJECT TECHNICIANS

CAD experience whilst desirable, is not essential as training will be given. You should have a sound knowledge of Building Construction.

The work is interesting and demanding and we need people with enthusiasm and initiative who are prepared to contribute to a dedicated team effort.

Attractive salaries are offered which will reflect both your experience and ability. The benefits package may also include a pension and relocation expenses.

McCarthy & Stone

Building for a safe, secure retirement.

Interested? Contact David Turner, our CAD Manager for further details and an

Dateline

Items for consideration must be received 10 days prior to publication

This week

Monday - Wednesday
Aggregate testing, workshop
organised by the Cement &
Concrete Association.
Venue: Fulmer Grange Training
Centre, Fulmer, Slough.
Details: The Registrar, (02816)
2727.

Tuesday
Roofing: our changing profession, a
conference organised by the
Institute of Roofing.
Venue: Blunsdon House hotel,
Blunsdon, Wiltshire, 10.30am - 4.45 pm.
Cost: Members £23, non-members
£28.75.
Details: The Institute of Roofing,
15 Soho Square, London W1V
5PB. 01-734 9164.

Tuesday
Design and performance of
structural timber joints, a one-day
seminar organised by the Timber
Research & Development
Association.
Venue: Buntingford Hall, Leeds
University.
Cost: TRADA members £70 plus
VAT, £90 plus VAT to non-
members.
Details: O. Iona, A. Goddard,
TRADA, 1, Huggenden Valley, High
Wycombe, Buckinghamshire,
HP14 4ND. Tel. (0494) 341 3091.

Tuesday - Thursday
London 11 & V Show.

Venue: National Hall, Olympia,
and the Olympia 2 Hall.
Details: Trenton Group, Trenton
House, Imperial Way, Croydon,
CR0 4RR. 01-680 7525.

Wednesday - Saturday
Landscape Institute 1986 National
Conference.
Venue: Keele University,
Staffordshire.
Cost: £90 for Landscape Institute
members, £100 for non-members.
Details: Colin Goodrum, 021-558
5611.

Wednesday
Innovation in construction, the fifth
annual seminar of the
Construction History Society.
Venue: Cement & Concrete
Association Training Centre,
Wexham Springs, Slough, Berks
SL3 6PL.

Cost: Members of the Construction
History Society £12.50, non-
members £20, bone fide students
and unemployed £6.50.
Details: Peter Harlow,
Construction History Society c/o
The Chartered Institute of
Building, Epsom, Surrey, KT8 5BJ.

Thursday
Computer-aided learning in
architecture, an inaugural
workshop to promote the
development of C.A.I. in
architectural schools.
Venue: Leicester Polytechnic,
Scrivvill Campus.
Details: Charles Dodge (0533)
551551.

Thursday - Friday
Market research for retail property,
the current state of the art, a two-
day conference organised by Henry
Stewart Conference Studies.
Venue: Cafe Royal, London W1.
Cost: £250 plus VAT payable in
advance.
Details: The Registrar, Henry
Stewart Conference Studies, 01-935
2382.

Thursday - Friday
Manufacturers and suppliers
exhibition, part of the three-day
conference on Energy efficiency -
the key to good building, organised
by the Four Professions Energy
Group.
Venue: The Cranfield Institute of
Technology.
Details: J. Lovell (043) 871
6772/4037.

Thursday - Saturday
Energy efficiency - the key to good
building, a three-day conference
organised by Four Professions
Energy Group.
Venue: The Cranfield Institute of
Technology.
Details: Conference Secretary
(0602) 813078.

Friday - October 10, Luigi Snozzi: Urban renewal at Monte Carrasso, Switzerland. Exhibition including drawings,
photographs and film of the work of the leading Swiss-Italian architect Luigi Snozzi, concentrating on the recent
designs for the small town of Monte Carrasso in the Ticino, the Italian sector of Switzerland. Venue: 9H Gallery,
London W1. Details: Richard Burdett, on-486 3555 or 01-431 0250.

Exhibitions

September 18 - October 25
Hugh Casson, architect,
Venue: Heinz Gallery, 21 Portman
Square, London W1.
Details: Hilary King, 01-580 5533
text 4121.

September 23 - 25
Timber build 86, specialist timber
exhibition materials show.
Venue: Royal Horticultural Halls,
London SW1.
Details: Paul Grinsell (0732)
764422.

September 30 - October 4
Batibols, the international
exhibition for the applications of
wood in building and construction.
Venue: Bodeaux - Lac exhibition
centre, Bordeaux, France.
Details: Pierre Bonnaville or Sylvie
Labrecq, French Trade Exhibitions,
French Chamber of Commerce
House, 54 Conduit Street, London
W1R 9SD. 01-439 3964.

Until October
W. Eugene Smith. Let truth be the
prejudice, exhibition of the
photographer's work, organised by
the Barbican Art Gallery.
Venue: Barbican Art Gallery,
London EC2.
Details: Christopher Senior, 01-438
5403.

October 10 - 12
London Fields artists open studios,
exhibition of the work of 50 artists
in their own studios.
Venue: Space Studios in Victor
House, Richmond Road and
Martello Street, Hackney. Friday
open 10am-5pm, weekend 12pm-7pm.
Details: Space, 01-788 7751.

October 11 - November 3
Ruth Duckworth and Janet Leach:
New ceramics.
Venue: British Crafts Centre,
Earlham Street, London WC2H.
Details: British Crafts Centre, 01-
836 6993.

October 13 - 31
Norman Foster, an exhibition of
Foster Associates' winning
competition entry for a
contemporary arts centre and
Mediateque in Nimes organised
by the French Institute in
association with the Royal
Academy's Autumn Exhibition on
Architecture: Foster, Rogers,
Stirling.
Venue: Institute Francaise Londres,
17 Queensberry Place, London,
SW7.
Details: Karen Liebrecht, 01-589
6211 (ext 38).

October 19 - 22
Olympia draughting, design and
graphics exhibition.
Venue: Olympia 2, Hammersmith
Road, London W14.
Details: Jonathan Gould, 01-385
1200.

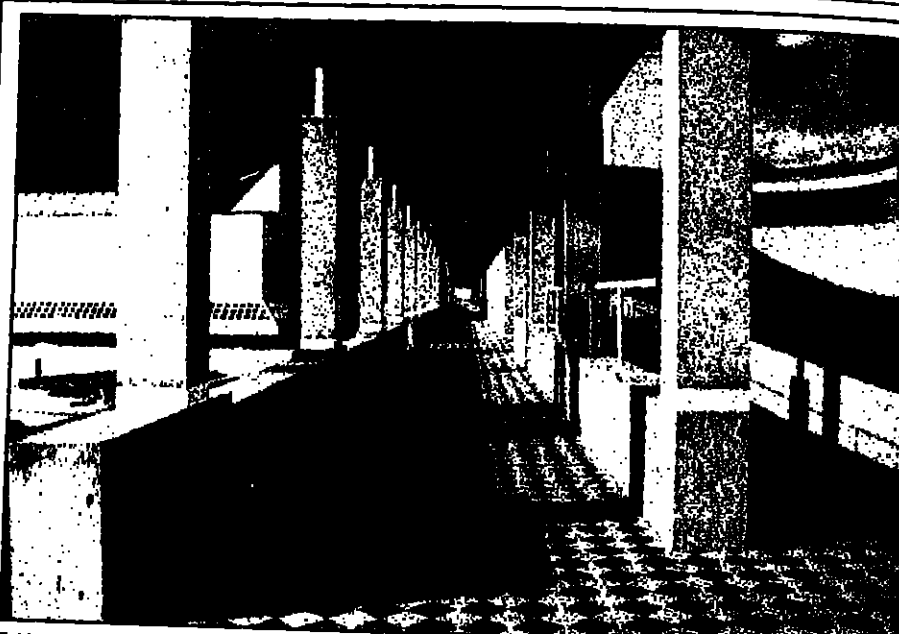
Until October 24
Make or break: design and British
Industry in 1946.
Venue: Royal College of Art,
Kensington Gore, London SW7.
Details: 01-584 5020.

Until October 25
Green design, exhibition.
Venue: Design Centre, 28
Haymarket, London SW1.
Monday and Tuesday, 10am - 6
pm, Wednesday to Saturday, 10
am - 8pm, Sunday 1pm - 6pm.
Details: 01-839 8000.

Until October 26
Life and landscape, P H Emerson -
art and photography in East Anglia.
Venue: The Sainsbury Centre,
University of East Anglia,
Norwich, Norfolk.
Details: Veronica Sekules (0603)
56561 (ext 2465).

Until October 26
George Heywood Summer: artist
and archaeologist (1853-1940).
Venue: Portsmouth Museum & Art
Gallery, 10.30am-5.30pm.
Details: (0705) 827 261.

Until October 5
The paintings and drawings of
Rabindranath Tagore (1861-1941),
exhibition organised by the
Museum of Modern Art, Oxford,
and the Barbican Art Gallery.
Venue: The Barbican Art Gallery,
London EC2.
Cost: Adults £2, children, students,
OAPs, disabled, unemployed £1.
Details: Christopher Senior, 01-638
5403, or John Hoole, 01-638 4141.



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Architectural & Construction BOOKSHOP

The books listed below are available through the Architectural & Construction Bookshop. A special service for readers provided by Morgan-Grampian Construction Press.

1. The Fireplace Book by Rosana
McDonald. A practical guide,
encompassing both functional and
aesthetic considerations, to fireplace
design, maintenance and restoration.
Price £10.95.

2. Building Regulations Explained and
Illustrated (Seventh edition) by Powell
Smith and Billington. Covers the new
1985 Regulations for all building types
for England and Wales, with extensive
illustrations and references to relevant
bylaws and Approved Documents. Price
£14.50 (paperback), £21.75 (hardback).

3. Hotel Planning and Design a guide
for architects, interior designers and
hotel executives by Walter A. Rutes
and Richard H. Penner. Identifies the
key opportunities in this field and
analyses the planning and design
criteria for nearly 30 different types.
Specialized and up-to-date guidance
unavailable elsewhere. Price £49.50.

4. The Classical Orders of Architecture
by Robert Chitham. Immaculate line
drawings and informative captions
explaining the origins, development
and practical usage of all the classical
architectural elements. Invaluable to
designers and fascinating for their
clients. Price £16.45.

5. The Architect's Guide to Fee
Negotiations by Ray Moxley.
Competitive fee tendering has now
become a reality of architectural
practice. This book sets out all the
items that have to be negotiated at
each stage. Price £18.95.

6. Construction Project Management
using Small Computers by Glen Peters.
As well as explaining the principles of
project management this book
explains how they can be applied on
small computers and which particular
systems are most suitable. Price £15.35.

7. Legal and Contractual Procedures
for Architects by Bob Greenwood. New
edition of this popular reference work
which gives concise and simple
guidance through the legal and
contractual maze of everyday
architectural practice. Price £9.95.

8. Contractor's Claims: A Architect's
Guide by David Chappell. Explains
how to avoid situations which give
rise to a contractor's claims for delays
or expenses, and how to deal with
them when they do arise. Price £15.35.

9. Manual of Graphic Techniques 4 by
Tom Porter and Sue Goodman. The
latest volume in this series uses
drawings to show every aspect of
development and presentation of plans,
from site plans to elevations, site sections
to sectional perspectives. There are
black and white photographs and
line drawings throughout. Price £19.85.

10. Specification 85 by David Martin.
Eighty-second edition of this annual
reference source for architects and
specifiers in the construction industry.
Volume 5 is a commissioned new
volume devoted entirely to specification
clauses. The six volumes set is
supplied in a library box. Price £57.50.

11. Standard Form of Building Contract
(5th edn) by John Parris. Probably the
leading text on JCT 80, this has been
revised to cover major changes in the law on professional
liability, retention monies and interest
on unpaid sums. Price £19.75.

12. How Architects Get Work by G.
Golden. Existing practices, as well as
new thinking of taking the plunge
into setting up on their own, will find
this book stimulating and lively
reading. Price £10.95 (paperback).

13. The Interior Design Workbook: A
Job Record and Diary by David Fry
FSIA, RIBA. Fills a considerable gap
in providing interior designers, with a
working tool which sets out all the
stages of an interior design project.
Price £10.95.

14. Design Liability in the Construction
Industry (Second edition) by D. L.
Carnes. Includes extensive new
material on the law of professional
negligence including the latest cases
after Pirelli. Price £19.00.

15. AJ Introduction and Complete Index
to the 1985 Building Regulations. Briefly
explains what the main changes
how to find all the references to new
Standards are included by each section
plus unique detailed subject index to
every topic covered. Price £8.25.

16. JCT Intermediate Form of Contract:
an architect's guide. By David
Chappell and Vincent Powell-Smith.
Practical advice for the architect,
clearly set out in simple terms, flow-
charts and tables. Studies the roles of
each party involved and covers impor-
tant topics such as claims and payment
in detail. Price £18.80.

17. Construction Law Reports. A new
series reporting decisions of the Official
Referees Court which are binding on
the whole industry. All members of
the construction team must keep up
to date with these decisions. Available
as a subscription: 3 volumes a year
£45.00.

18. Arch-ites Postcards 2 sets of 8
colour postcards by Louis Hellman. Set
1: Wright, Le Corbusier, Mies, Aalto,
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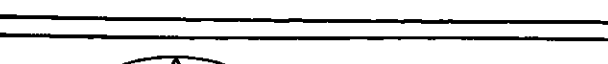
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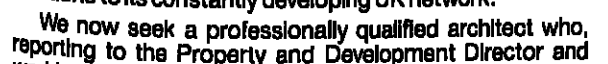
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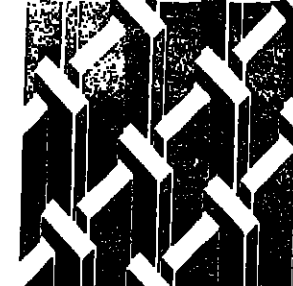
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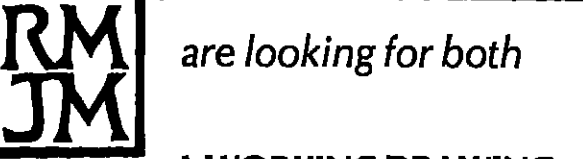
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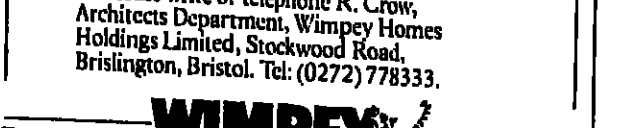
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BOROUGH OF HAVANT
TS17
Technical Assistant (Architecture)
Scale 4-6 £6,900-£9,591 (Pay Award Pending)

Applications are invited for the post of Technical Assistant (Architecture) in the Architectural Section of the Technical Services Department.

Applicants should have a suitable technical/professional qualification and have enough experience to carry out feasibility studies, prepare design layouts and production information with the minimum of supervision.

Disabled persons may apply as appropriate. Housing accommodation may be available. Generous relocation expenses.

Application forms and further particulars available from: **Director of Technical Services, Borough of Havant, Civic Offices, Civic Centre Road, Havant, Hants PO9 5AX**
Telephone: Havant 474174 ext 174.
Closing date: 24th September 1988.

CIVIC TRUST
requires a

PROJECT LEADER
for its Ilfracombe Regeneration Project

As a result of the Ilfracombe project, a community based programme of environmental and economic improvements is being set in hand by the Trust with support from North Devon District Council and other agencies.

A skilled and enthusiastic Project Leader is sought with the longer term potential also to contribute to other urban regeneration work by the Civic Trust. The successful candidate will have proven leadership experience and capacity to initiate action and work well with local people. He/she may well be qualified as an Architect, Planner or Urban Designer and will be based locally. Salary up to £14,000 p.a. Closing date 29 September.

For further details contact Paul Davies, Civic Trust, 17 Carlton House Terrace, London SW1Y 5AW.
(Re-advertisement. Previous applicants will be reconsidered).

PRIVATE SECTOR

ROBERT HUTSON ARCHITECTS
ESSEX
urgently require

ARCHITECTS

A true general practice working on schools, houses of all variety, listed buildings, audio visual studios, children's homes, old peoples homes etc.
Pleasant friendly offices in a converted Water Mill close to the centre of town.

Robert Hutson Architects, Moulham Mill Parkway, Chelmsford, Essex.
Tel: 0245 252414

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DEDICATION
TALENT
We need a bright, young Architect with flair, dedication and talent, to take personal responsibility for a number of schemes at various stages, each with the potential to prove the VALUE OF GOOD DESIGN
Ring Sherrie - 01 226 9708
Or write to:- 33 Upper Street N1

LEICESTER POLYTECHNIC
LECTURER 11/SENIOR LECTURER IN ARCHITECTURAL HISTORY AND THEORY
(Post No. 349) Salary £8,595-£15,873 p.a.

A well qualified architect with considerable experience in Architectural and Urban History and theory is required to begin teaching in January 1989 on the BA (Hons) Degree and Diploma Courses. He/she will also be expected to assist in the running of design projects. In addition, the lecturer may be invited to lecture in the School of Art History at Leicester Polytechnic and the History of Art Department at the University of Leicester.

Recent publications in Architectural History or Theory will be an advantage in the consideration of the candidates application.
Application forms and further details available from the Personnel Officer, Leicester Polytechnic, P.O. Box 143, Leicester LE1 9RH. Tel: (0533) 551 551 ext 3203.
Closing date 3rd October 1988.

GREENWICH
People and Services First

Building Control Assistant

£9,672-£10,284

Applicants should have good practical knowledge of the Building Acts and new Building Regulations with over 3 years experience.

Application form from Borough Planning Officer, London Borough of Greenwich, John Humphries House, Strawberry Street, Greenwich, London SE10 8JN. Tel: 01-883 0077 Ext 2278.
Closing Date: 28th September 1988

Working for Equal Opportunities

SOUTH EAST THAMES REGIONAL HEALTH AUTHORITY

Design Assistants

Architects Division

Our Design Practice requires Assistants to help with a full programme of schemes on the drawing board and on site, currently 20 projects with a total value of over £30m, together with a wide range of architectural studies.

Salaries between £4,794 and £10,654 will take account of experience in addition to qualifications such as ONC & TEC or equivalent, or an architectural degree or diploma for architectural students requiring professional practice experience.

Opportunities also exist for supported day release for suitable further training.
If you would like to join a healthy practice with high ideals but with its feet on the ground, telephone for an informal chat - ask for Roland Phillips or Mike Otton (Bexhill-on-Sea (0424) 222555).

Application forms and further information may be obtained by writing to the Personnel Department, South East Thames Regional Health Authority, Thrift House, Collington Avenue, Bexhill-on-Sea, East Sussex TN38 3NQ.
Ref: 6153. Closing date: 28th September 1988.

Property Department
ARCHITECTS

We urgently need an experienced Principal Architect (PO1) and recently qualified Senior Architect (SO1) to work in one of our two design groups in our multi-disciplinary office in Worcester.

PRINCIPAL ARCHITECT
PO1 - £11,804-£12,813 (pay award pending)
An Architect with several years experience, excellent design ability, and with leadership qualities and organisational skills. Although working under the direction of a Group Leader Architect, you will be dealing with individual major projects from inception to completion.

SENIOR ARCHITECT
SO1 £9,978-£10,698 (pay award pending)
Recently qualified, with one or two years experience, you will be an excellent designer, with enthusiasm, commitment and potential. You will be expected to handle projects of various sizes from inception to completion, either on your own or as leader of a small team.

If you would like to work in a lively and dedicated group of design orientated professionals, committed to the highest standards of architecture and technical competence, please telephone Assistant County Property Officer, Stephen Taylor, at Worcester (0908) 383388, extension 2100.

Relocation expenses, removal costs and assistance with temporary housing in appropriate cases. Flexible working hours. Car loan scheme. Application form and job description available from County Property Officer, County Hall, Spetchley Road, Worcester WR5 2NP, or telephone Worcester (0908) 383388 extension 3510.

Applications to be returned by Monday 28 September 1988.

Hereford and Worcester County Council

ARCHITECTURAL ASSISTANT/TECHNICIAN

Scale 2/5 £8,243 - £9,390 p.a.

plus "casual user" car allowance.

We are looking for an assistant to join our Architects, working in multi-disciplinary teams on an interesting range of housing, education, recreation and social services projects.

Preference will be given to candidates studying for RIBA or BIAI qualifications and day release will be available in suitable cases.

The starting salary will be according to experience and qualifications. The successful candidate will have an excellent opportunity to gain experience on a wide range of interesting projects.

The offices are pleasantly situated in Chingford, close to Epping Forest and the M25.

As an equal opportunities employer in a multi-racial area the Council expects all its employees to have a commitment to furthering its Equal Opportunities Policy.

Application form and job description from Recruitment Officer, Personnel Department, Town Hall, Walthamstow, E17 4JF. Telephone: 01-631 8899 (24 hour answering service).

Please quote reference no. N 8114.
Closing date: 28th September, 1988.

AN EQUAL OPPORTUNITY EMPLOYER
Applicants are considered for their suitability for the post regardless of ethnicity, sex, race and marital status

Waltham Forest

LONDON BOROUGH OF HARINGEY
BUILDING WORKER
£11,638-£12,897

DEVELOPMENT WORKER
£11,638-£12,897

ADMINISTRATIVE OFFICER
£8,613-£9,390

These are temporary full time posts for the Selby Road Development Project

Tottenham School, Selby Rd., is being converted for use by local community groups. Project support is needed to aid the establishment of projects meeting the needs of women, young people, the elderly, the black and minority ethnic communities and people with disabilities, as well as local residents.

This major development will provide social, recreational, arts and sports facilities for the community with the projects on site working towards a common ethos of anti-racism, anti-sectarianism, equal opportunities and community accountability. We are looking for a team of staff to work together during the duration of the building conversion programme, which should be completed in under 12 months.

Community Buildings Worker: to manage the buildings on site day-to-day and work with the Building Design Service on alterations and repairs. You will need experience in building management and maintenance and control of manual employees.

Community Development Worker: to coordinate and provide support to user groups on the site and to advise and assist in the consultation process. You will need experience in providing support to community groups in a Local Authority or voluntary sector context.

Administrative Officer: to provide administrative and financial support to the team. You will need broad experience in administrative and financial procedures. You will need to demonstrate a clear commitment to anti-racism and anti-sectarian policies. We welcome applications from women and black or minority ethnic communities who are under-represented in the area. You will need to demonstrate an understanding of the particular needs of women, black and minority ethnic communities and people with disabilities in an inner-city multi-racial area.

Application forms and further details from Veronica Holloway, Staffing Section, Community Services, 25 Section Road, Wood Green N22 4LE. Telephone 01-861 3000 ext 3585. Closing date: 1st October 1988.

ARCHITECTS/ASSISTANTS/TECHNICIANS
£8577-£15,888 Scale 5 - PO1
For North Tottenham Team

This progressive, non-hierarchical service comprises multi-disciplinary teams of administrators, architects, clerk of works, engineers and quantity surveyors. We are committed to the Council's policies of equal opportunities, accountability to the local community and the development of collective responsibility and management. The North Tottenham area team's main project is the Tottenham Green Community Recreation, Leisure and Cultural Centre comprising new build and conversion works which will provide swimming pools, library, theatre, recording studios, sports and many other facilities.

We are looking for people with a range of skills who can actively contribute to the development of design within a team, who are willing to take responsibility and learn to see projects reach built form.

The above posts are permanent positions. However, temporary employment arrangements may be considered. Job share is a possibility. Our office is currently situated at Crouch End, London N8, and the usual excellent local government working conditions apply, including flexible, post entry training, automatic progression and financial assistance with removal expenses.

For further information, please telephone Terence Butcher on 01-340 3988 Ext 945.
Haringey is an equal opportunity employer. We welcome your application which will be considered on the basis of merit, without regard to sex or any disability you may have.

For application forms contact Helen Marshall on 01-340 8031 Ext 949 or write to Building Design Services, Haringey Town Hall, The Broadway, Crouch End, London N8 9LS. Closing date 26th September 1988.

At the request of advertisers, readers are asked to refer to Building Design when replying to advertisements on this and other pages

Metropolitan Borough of Rochdale
An Equal Opportunity Employer

Applications are invited from those with the necessary attributes regardless of race, creed, nationality, disability, age or sex.

ARCHITECTURAL ASSISTANT/ARCHITECT

St. Alban's House, Drake Street, Rochdale.
PO1 £11,200-£12,188 (pay award pending)

The Borough Architect's Department is multi-disciplinary and provides an environment in which individuals are encouraged to flourish. The successful applicant will be involved in a wide range of building types including new housing, schools, community centres, sheltered accommodation schemes as well as modernisation, renovation and refurbishing programmes.

Applicants are invited from qualified architects, preferably with a minimum of two years post qualification experience, possessing a good standard of design and an urge to undertake projects from inception to completion. The successful applicant may be required to work as an individual or as a member of a small team.

Prospective applicants who wish to enquire further about the Department should speak to Jim Midan, Chief Architect, Telephone 0706-341411.

A Casual User Car Allowance is payable and therefore applicants should possess full current driving licence.

This is a re-advertisement and previous applicants will automatically be re-considered.

Application forms available (Quota ref K226) from Chief Personnel Office, PO Box 88, Municipal Offices, Smith Street, Rochdale OL16 1XG (Telephone 47474 Ext 682) to be returned no later than 26th September 1988.

Temporary Architectural Technician/Architectural Assistant/Project Architect
(2 posts 20 & 17 months)
Salary £7,820-£10,638 p.a. (pay award pending)

To work on a wide range of Housing and General Works projects. You should show an ability to produce quick and accurate work, and have good design sense. Architectural Technicians should either be undertaking or have completed a course of study relative to obtaining a Higher National Diploma (Building), with a supplementary certificate in Building Technology (for their recognised equivalent). Appointment as an Architectural Assistant is only available to a registration with ARCUK, and who has passed the Part I examination of the RIBA. A person who is, or becomes registered with ARCUK would be appointed as a Project Architect on salary grade SO1 £9876-£10638 p.a.

A Casual User Car Allowance is payable. You will join an Authority that can offer modern office accommodation, flexible working hours, staff canteen, social club and car loans to all staff on £6234 p.a. and above. Consideration will be given to lodging allowance in appropriate cases.

Closing date: 2nd October 1988
Interview date: 14th October 1988

Application form and job description may be obtained from the Chief Personnel Officer, Council Offices, Military Road, Canterbury, Kent CT1 1YW. Telephone: 0227 451755 Ext 4206.

CANTERBURY CITY COUNCIL

The Borough of Eastleigh is situated in Southern Hampshire close to the scenic, sporting attractions of the New Forest and Solent.

Principal Architect/Assistant New-Build Project Manager
£11,604-£12,512 (pay award pending)

The postholder will lead the small Architectural Design Group within the Section and will also be required to deputise for the New-Build Project Manager. The post would suit a qualified architect who is seeking his/her first supervisory appointment.

The main duties involve architectural design, construction supervision and providing architectural advice to the Authority. Applicants should be RIBA with 2-3 years post qualification experience.

A lump sum car allowance of £850 and relocation expenses of £2,500 are payable in approved cases.

The post is situated in modern well-appointed offices with flexi-time and a subsidised staff restaurant.

Application forms and further details are available from Mrs Louise Reed, Manager of Services Section, Civic Offices, Leigh Road, Eastleigh, Hants SO5 4YN. Telephone Eastleigh (0703) 614646 ext 3054.

Closing date 26th September 1988.

Borough of Eastleigh
An Equal Opportunity Employer

Middlesbrough Borough Council

ECONOMIC DEVELOPMENT AND PROPERTY DEPARTMENT

Architectural Technician
£8,234-£8,697 (pay award pending)

A vacancy exists in the architectural services for a qualified technician to join a group of architects and technicians working on a wide range of building types involving existing buildings as well as new build.

If you are interested in joining a pleasant, friendly office, are prepared to work hard and can show a commitment to producing a good quality end product please apply for an application form and job description to A. Noble, Chief Economic Development and Property Officer, P O Box 65, Vancouver House, Central View, Gurney Street, Middlesbrough, Cleveland Telephone (0642) 245432 Ext. 3692.

If you would like to talk about this job you are welcome to speak to Tom Riding, Assistant Chief Officer, Architecture on extension 2767.

Closing date 26 September 1988.

It is the policy of Middlesbrough Borough Council to provide equal employment opportunities and consideration will be given to all suitably experienced and qualified applicants regardless of handicap, sex or race.

The council has a policy of inviting for interview all disabled persons who have a written support of their Disabling Resettlement Officer.

Job sharing facilities are available.

Architects Senior Quantity Surveyor
PO3. £14,202-£15,342 p.a. inclusive

We need a competent and experienced Quantity Surveyor with initiative to become a leading member of a busy professional section.

You must be able to undertake all aspects of quantity surveying including estimating, cost planning, bill preparation, cost control, valuations, final accounts and the compilation of data for Central Government in departmental forms.

You will be required to carry out supervision of quantity surveying teams on projects including housing repairs, renovation and rehabilitation, new build housing proposals as well as major library, sports centre and landscaping works.

Ideally you should have Associated Membership of the RICS, coupled with at least five years post-qualification experience of quantity surveying duties in relation to housing, public buildings and rehabilitation works.

Application forms are available from London Borough of Hammersmith and Fulham (Personnel), Town Hall Extension, King Street, Hammersmith W6 8JU, telephone 01-741 0804 (24 hour answering service) quoting reference number APQG 007. Closing date: 28 September 1988.

You are welcome to apply whatever your gender, race, colour, ethnic origin, nationality, sexual orientation, religious beliefs or practices, age (up to 65 years) or disability. Job Sharers Welcome.

Hammersmith & Fulham
An Equal Opportunity Employer

SENIOR CLERK OF WORKS
(Post No. TSG066) Scale 5/6 £7920 - £9591 (pay award pending)

CLERK OF WORKS
(Post No. TSG067) Scale 3/4 £6234 - £7713 (Pay award pending)

The head of the Technical Support Group is seeking to appoint a Senior Clerk of Works and a Clerk of Works within the Building Design and Construction Section of the group, based at the group's headquarters at Fort Road, Littlehampton, to inspect and supervise building projects within the Arun District.

Applicants should be experienced in building contract supervisory duties and have a sound knowledge of all forms of building construction. Preference will be given to applicants who are members of the Institute of Clerk of Works.

An essential user car allowance is payable and starting salary will be determined by individual's experience, qualification and ability.

For informal chat about the posts please contact the Chief Architect, Terry Salmon, on Littlehampton (0903) 722888/9, ext 242.

For a job description, application forms and details of the Council's scheme of removal and resettlement allowances please contact the Personnel Officer, Arun District Council, Arun Civic Centre, Littlehampton, West Sussex BN17 5EP or telephone Littlehampton (0903) 728418.

Closing date 10th October 1988.

Arun District

Assistant Regional Architect: Project Manager
Manchester
Salary £16,105-£19,541 p.a.

If you're looking for a real career challenge then the Project Services Department within our Estates Services Division is the place for you. We are responsible for over 1,100 health care and associated premises with a planned capital investment of some £200m. Over the next 10 years, you'll be managing a team of Architects who provide professional design and advice to the Project Management Manager and acting as his deputy, reporting to the Assistant Department Manager. This involves the forward planning and implementation of capital developments for a number of our DHSS sites as Project Manager for medium sized schemes.

You'll be involved in the management of the architectural team to ensure the implementation of DHSS and regional policies to projects, your duties will be wide ranging and challenging and the scope to develop our future standards is endless.

A registered Architect and preferably a corporate member of the RIBA you'll have at least 5 years experience in a senior capacity over the whole range of architectural activities. In addition, you'll need excellent organisational and motivational skills together with the tact and diplomacy needed to lead a highly professional team.

Application form and job description from Regional Personnel Division, Gateway House, Piccadilly South, Manchester M60 7LP. Tel: 061-236 6446, ext 614. Please quote reference number 980/5.

Closing date for receipt of completed application forms Friday, 26th September, 1988.

NORTH WESTERN REGIONAL HEALTH AUTHORITY

Leicester City Council

As part of the City Council's commitment to an Equal Opportunity Policy, applications are welcome from people regardless of marital status, sex, race, disability or sexual orientation. Job sharing applications are welcome for all jobs below.

City Architects Assistant Research and Development Officer
Salary £6,900-£7,713

To assist in a wide range of duties including the design and codification of procedures, co-ordination or technical research and analysis of design costs and standards. Applicants must be able to participate in research into practical computer applications, be highly numerate and bring versatility, well developed communication skills and an enquiring mind to this post.

Where relocation is necessary, expenses to maximum of £2,360 plus approved removal costs, together with help in finding temporary housing accommodation, are available.

Application form (returnable by 23rd September 1988) and further details from Director of Personnel and Management Services, New Walk Centre, Welford Place, Leicester LE1 6ZG. Tel (0533) 649922 Ext. 7099.

...working for Leicester

Islington Architectural

LONDON BOROUGH OF ISLINGTON Architectural Department

Islington has a tradition of high quality community architecture. As part of this it is continuing a major programme of improvements to its Housing Estates built predominantly between 1918 and 1948. The Estate Action programme, designed to bring dwellings and their surroundings up to current space and environmental standards, through full tenant consultation and sensitive design. An Architect/Surveyor is required to join the Estate Action Team for rehabilitation projects in this programme. The successful candidate will be responsible to a Principal Architect for all aspects of job running, from feasibility to final account.

ARCHITECT OR SURVEYOR
(Ref AR 113)

Grade PO1 £12,597-£13,485 inclusive

Applicants must have a minimum of 2 years post RIBA or RICS qualification experience, or a minimum of 5 years direct experience of most aspects of running moderately complex projects with some supervision. The postholder will be required to manage, with some projects, one moderately complex project or several simple projects.

Candidates must have a knowledge of building contracts, construction, appropriate legislation relevant to the Building Process, and specification writing. An understanding of cost control procedures and an interest in landscape design is desirable.

Candidates must be able to communicate effectively with other members of the design team, contractors and tenants. The postholder will be required to attend occasional evening meetings.

This post is suitable for full-timers or for people wishing to share the job on a half-time basis.

Application forms are available from The Borough Architect, London Borough of Islington, 222 Upper Street, London N1 2UH telephone 01-384 7040. Closing date: 26th September 1988.

Our jobs are open to all races, both sexes, lesbians and gay men and we have a positive attitude towards the employment of disabled people.

Haringey Council Building Design Service

Do you wish to serve the community?

This is a progressive non-hierarchical service of approximately 230 staff who design and supervise the construction of all types of buildings from new build houses, flats, leisure/community centres, schools, libraries and other public buildings to the general rehabilitation of houses.

We are in the process of expanding and require all grades of Design Staff, Quantity Surveyors, Environmental Engineers, Clerks of Works and Administrators to meet Haringey Council's building expansion programme.

Currently the service is organised into 8 Multi-disciplinary Area Teams and a Central Support Team. It is proposed to establish a further one or two Multi-disciplinary Area Teams and the development in the Building Design Service of a system of collective responsibility and decision making (self-management). You will be expected to participate in the development of the Service Co-operative Management System. This will involve taking part in team meetings and carrying out any management function delegated at team or service level, commensurate with the grade of the post.

Building Design Service have direct involvement with Client Services and User Groups and staff should be committed to their needs. Salaries and conditions of service are under local review, the results of which will be notified at interview. There is also a national award pending. Essential car user allowances are applicable to all project staff posts.

Team Leaders/Management Board Members
(minimum of 2 posts)
Secondment at PO6 £17,601

We are looking for experienced and talented staff who are committed to improving local authority design services.

You must have the ability to co-ordinate either a Multi-disciplinary Area Design Team of about 20/25 staff or a team of about 20 staff providing central administration and other support to the Area Team and central management (dealing with issues like staffing, industrial relations, administration co-ordination). You will represent the Team on the Management Board, and take part as a Member of that Board in the overall management of the Design Service in the collective Chief Officer role.

The Management Board consists of the Team Leaders, who are seconded from permanent posts in the structure. Membership of the Management Board will initially be for a limited period on a salary of £17,601. After this time, subject to a review of the new structure, either secondment may be extended or the person will take up the duties of a relevant position in the Service at a salary and grade to be agreed on appointment.

For further details please contact Jacquie Quin, telephone 348 5101 ext 32 and for an application form please see details at the end of these advertisements quoting reference SRT/11

Architects
(minimum of 7 posts)
PO3 - PO4 £13,578 - £15,804

You will undertake project responsibility for rehabilitation and new build projects and lead a Multi-disciplinary Design Team when required.

You will need to demonstrate high level design ability and have previous contact experience from inception to completion.

You will be able to participate in the resource allocation, programming, training and supervision of less experienced staff. Ref: SRT/12.

Architects/Assistants/Technicians
(minimum of 3 posts)
Scale 6 - PO1 £9,672 - £12,861

We are looking for people with a range of skills which include design and drawing ability, and knowledge of building construction to join a Multi-disciplinary Team.

You must be willing to take responsibility and keen to see projects reach built form. Ref: SRT/13.

Architect, Consultant Liaison
PO4 £14,718 - £15,804

You will undertake project liaison responsibility for rehabilitation and new build projects where Consultant Architects are involved.

You will need to demonstrate a high degree of experience in the running of building contracts, preferably in the public sector. This part of the job description will be valid for approximately 2 years.

You will also need to demonstrate high level design ability and to be able to undertake project responsibility when requested for rehabilitation and new build projects and to lead a Multi-disciplinary Design Team when the Consulting Liaison role ceases. Ref: SRT/23.

For further information on all Architectural Posts please contact Jacquie Quin, telephone 348 5101 ext 32 and for application form please see details at the end of these advertisements quoting the relevant reference.

Quantity Surveyors
(minimum of 2 posts)
PO3 - PO4 £13,578 - £15,804

You will act as a Senior Quantity Surveyor within an Area Team and provide construction cost advice within a Design Team and, dependent on experience, will participate in the resource allocation, programming, training and supervision of less experienced staff.

You will have a wide experience of quantity surveying practice and procedures, and should be able to give technical/cost advice to other departments and outside bodies. Ref: SRT/14.

Quantity Surveyors
(minimum of 2 posts)
Scale 6 - PO1 £9,672 - £12,861

We are looking for Quantity Surveyors who will provide full quantity surveying services to Design Teams on small projects and assist more experienced Quantity Surveyors on larger projects.

You will have experience of a wide range of quantity surveying practice and procedures. Ref: SRT/15.

For further information on the Quantity Surveying posts please contact Walter Buckley, telephone 340 8031 ext 262 and for application form please see details at the end of these advertisements quoting the relevant reference.

Programmer
(minimum of 1 post)
SO1 - PO1 £10,668 - £12,861

You will have a key role in co-ordinating the work of Area Design Teams in conjunction with the requirements of the Client Service.

You must be able to assemble, critically analyse and present programming and resource information. Preferably you will have experience of design and/or construction planning in the building industry.

For further details please contact Sharad Dandawate, telephone 340 8031 ext 254 and for application form please see details at the end of these advertisements quoting reference SRT/22

Clerks of Works
(minimum of 2 posts)
SO2 - PO1 £11,643 - £12,861

You will be required to ensure proper and effective supervision of building works in the Council's programme.

You should have a minimum of three years relevant experience in this type of work.

For further details please contact Terence Butcher, telephone 340 3288 ext 255 and for application form please see details at the end of these advertisements quoting reference SRT/18

Building Services Clerks of Works
(minimum of 2 posts)
PO1 £11,973 - £12,861

You will be required to ensure proper and effective supervision of material and workmanship for Mechanical Services installations.

You should have a minimum of three years relevant experience in this type of work.

For further information please contact Keith Morris, telephone 348 5101 ext 25 and for application form please see details at the end of these advertisements quoting reference SRT/19

Environmental Engineers
(minimum of 2 posts)
PO3 - PO4 £13,578 - £15,804

You will be required to act as a Senior Environmental Engineer within a Multi-disciplinary Area Team.

You will act as a Project Engineer on a wide range of buildings from inception of brief through to final account.

You should be suitably experienced in either (or both) electrical or mechanical services, in both the design, specification and running the contract on site.

You will be able to participate in the resource allocation, programming, training and supervision of less experienced staff. Ref: SRT/16.

Environmental Engineer
(minimum of 1 post)
SO1 - PO1 £10,668 - £12,861

You will act within a Multi-disciplinary Area Team and as a Project Engineer on a full range of small projects from inception to final account, or as an assistant on larger schemes.

You should be suitably experienced in either (or both) electrical or mechanical services and be able to design, produce a specification and run the contract on site for a small project. Ref: SRT/17.

For further details of the Environmental Engineers posts please contact Keith Morris, telephone 348 5101 ext 25 and for application form please see details at the end of these advertisements quoting the relevant reference.

Administrators
(minimum of 5 posts)
Scale 6 - SO1 £9,672 - £11,331

We have vacancies for Administrators in both the Multi-disciplinary Area Teams and the Central Support Teams. For the Area Team you will be required to provide and co-ordinate the administration of a Multi-disciplinary Team of approximately 25 members. For the Central Support Team you will be required to provide and co-ordinate the administration of a team of approximately 20 members and in particular assist the administration of the Staffing Section. The work will include some typing, so a willingness to type is essential. Ref: SRT/20.

Administrator
(minimum of 1 post)
Scale 3-4 £6,927 - £8,406

You will be required to provide administrative support and a typing resource to a Multi-disciplinary Area Team, or to a Central Support Team. Normally 50-70% of your time will be spent typing, so this skill is essential. Ref: SRT/21.

For further details of Administrative posts please contact Maggie Mossom, telephone 340 8031 ext 208 and for application form please see details at the end of these advertisements quoting the relevant reference.

Haringey Council is a multi-racial community. The Building Design Service particularly welcome applications from women and from the black and minority ethnic communities who are under represented at all levels in the workforce as a whole, and in the Building Design Service.

The Council encourages additional training of staff and pays for post entry training courses, day release courses and other recognised courses which are job-related.

Working conditions are excellent including flexible working hours, maternity/paternity leave, car allowances where appropriate and help with removal expenses where applicable.

Haringey is an equal opportunities employer and we welcome your application regardless of gender, race, disability and sexual orientation.

Application forms and job descriptions for all the above posts are available from Building Design Service Special Recruitment Team, Hornsey Town Hall, Crouch End, London N8 9LJ. Telephone 348 5101, ext 99 during normal working hours or Answerphone Service on 348 6849 between 6.00 p.m. and 8.00 a.m. Please quote the job reference. Closing date for all applications - 6th October, 1988.

HARINGEY COUNCIL
EXTENDING RIGHTS - DEFENDING SERVICES